

International Survey of Aids for the Partially Sighted

HV1786
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REF.

JM Gill



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INTERNATIONAL SURVEY OF AIDS

FOR THE PARTIALLY SIGHTED

Second Edition

J M Gill

March 1985

Research Unit for the Blind

Brunel University

Uxbridge, Middlesex

England

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This book lists aids for the partially sighted which are commercially available, but does not include aids which would normally be prescribed by an ophthalmic optician. The information has been provided by manufacturers or their agents, and the author has not verified the accuracy of their claims. Prices are quoted exclusive of sales or value added tax, shipping costs and import duty. Some suppliers sell aids at different prices for foreign and domestic sales, and others give special concessions to blind people in their own country; the prices quoted are the foreign prices with the domestic (dom.) and concession (con.) prices in brackets. The source quoted is that of the main supplier (usually the manufacturer).

The author is most grateful for the help he has received from Dr J I Lindstrom (Sweden) and Miss J Silver (UK). This book is based on "International Survey of Aids for the Visually Disabled" which was prepared with the support of the Royal National Institute for the Blind.

ALPHAVISION LTD

61 Beechtree Avenue, Marlow Bottom, Bucks SL7 3NH,
England. Tel: 06234-71370.

Model: Alphavision Minor

Description: Compact 12 inch monitor and camera on stand with clip on platform. Built-in non-glare fluorescent illumination and rise and fall mechanism for camera. Magnification with zoom lens from approximately 2x to 48x. Reverse polarity switch and enhanced contrast switch. Optional electronic window and UHF modulator. Available in left and right hand models.

PREFACE

This book lists aids for the partially sighted which are commercially available, but does not include aids which would normally be prescribed by an ophthalmic optician. The information has been provided by manufacturers or their agents, and the author has not verified the accuracy of their claims. Prices are quoted exclusive of sales or value added tax, shipping costs and import duty. Some suppliers sell aids at different prices for foreign and domestic sales, and others give special concessions to blind people in their own country; the prices quoted are the foreign prices with the domestic (dom.) and concession (con.) prices in brackets. The source quoted is that of the main supplier (usually the manufacturer).

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ELECTRONIC READING AIDS

Optical aids have long been used to augment residual vision but such aids vary considerably in type, cost, availability and acceptability. They include simple hand magnifiers, industrial magnifiers (which often have illumination built-in), spectacle magnifiers and spectacle-mounted or hand-held telescopes. Up to 20x magnification is in common use but all aids have disadvantages and demand considerable adaptation and persistence from the user. Higher powers invariably have a small field and a very short working distance (ie the space between the aid and the material to be viewed).

Closed circuit television confers certain advantages not available from optical aids: greater magnification, ergonomic advantages of a relatively normal reading position, variable magnification with zoom lenses, image reversal – that is the capability of switching from conventional black print on white background to white on black which is preferred by many users, enhanced contrast, electronic window to assist in reading just one line of print. The disadvantages are that the aids are bulky, difficult to move about, may need skilled maintenance and are expensive.

ALPHAVISION LTD

61 Beechtree Avenue, Marlow Bottom, Bucks SL7 3NH, England. Tel: 06284-71370.

Model: Alphavision Minor

Description: Compact 12 inch monitor and camera on stand with clip on platform. Built-in non-glare fluorescent illumination and rise and fall mechanism for camera. Magnification with zoom lens from approximately 2x to 48x. Reverse polarity switch and enhanced contrast switch. Optional electronic window and UHF modulator. Available in left and right hand models.

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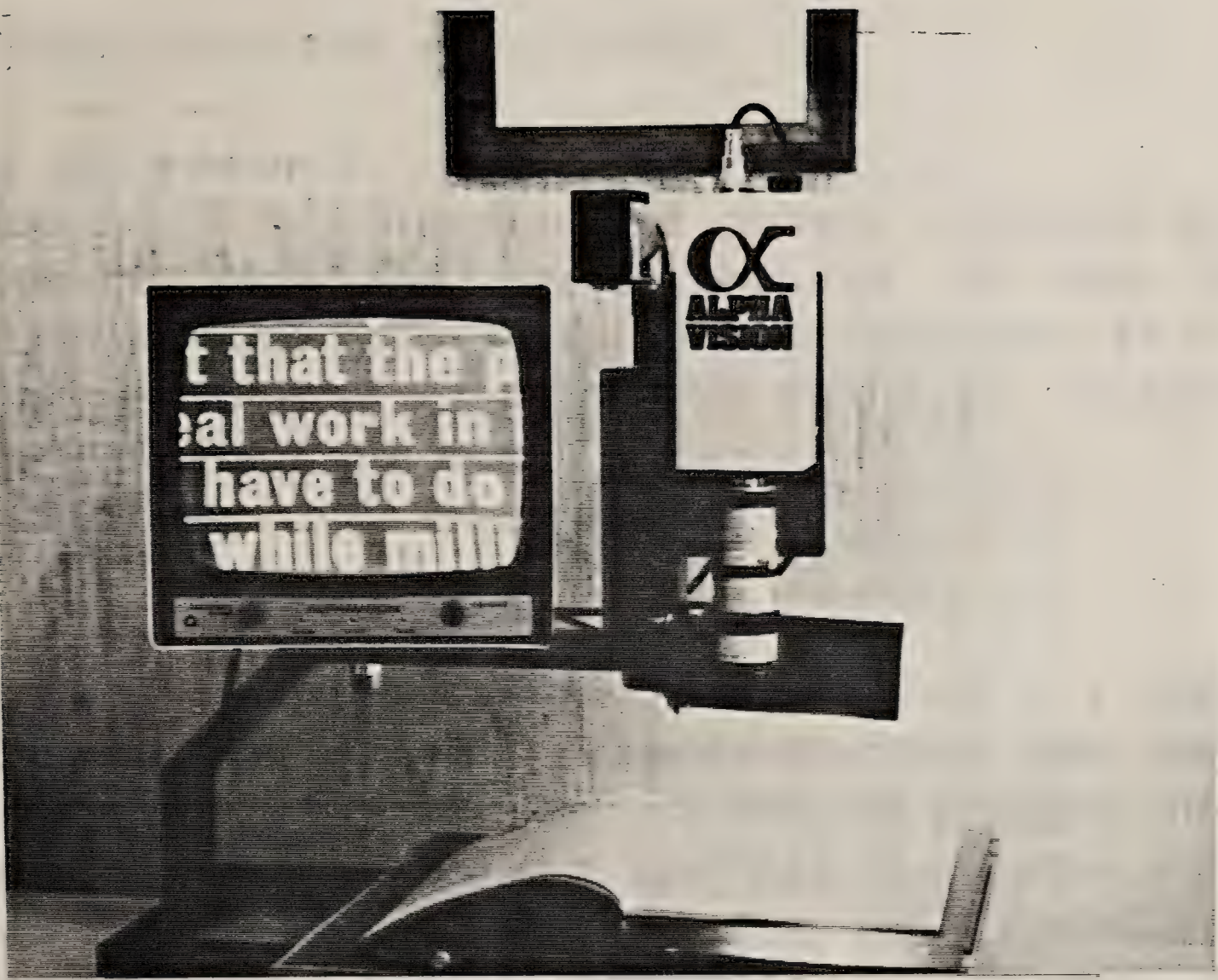
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ALPHAVISION LTD

81 Bechtel Avenue, Marlow Bottom, Bucks SL7 3NL
England. Tel: 06284-71370

Model: Alphavision Minor

Description: Compact 12 inch monitor and camera on stand with clip on platform. Built-in non-glass fluorescent illumination and rise and fall mechanism for camera. Magnification with zoom lens from approximately 2x to 48x. Reverses polarity switch and enhanced contrast switch. Optional electronic window and UHF modulator. Available in left and right hand models.



Alphavision Minor (Alphavision)



Videoscope (Howe Press)



Price: £805; electronic window £95

Model: Alphavision 17

Description: 17 inch monitor and camera on stand with x-y platform with the same features as the Minor. Magnification with zoom lens from approximately 3x to 68x. Optional electronic window and UHF modulator. Available in left and right hand models.

Price: £865; electronic window £95

Model: Alphavision Domestic

Description: Camera mounted on frame with x-y platform. Add on platform on side to accommodate any standard domestic television. This camera can be plugged into any standard domestic television and has the same standard features as the Minor. Magnification will depend on size of screen selected but the maximum magnification on 20 inch screen is about 80x. Zoom lens is standard. Optional electronic window. Available in left and right hand models.

Price: £680 (excluding television); electronic window £95

HOWE PRESS

175 North Beacon Street, Watertown, Massachusetts 02172, USA. Tel: 617-924 3434.

Model: Videoscope

Description: The camera is mounted on a spring-balanced arm. Magnification up to 32x and image reversal. Supplied in rugged carrying case.

Price: Standard Videoscope (camera, arm, mounting bracket, carrying case, cable and x-y table) \$1400. 19 inch monitor \$400. RF adaptor for US domestic TV \$200

THE HISTORY OF THE UNITED STATES OF AMERICA, FROM THE FIRST SETTLEMENTS TO THE PRESENT TIME. BY JAMES M. SMITH, ESQ. VOL. I.

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Scuola and Biblioteca (Lace Electronics)



Magnivision HC (Low Vision International)

LACE ELECTRONICS SNC

Via C Cattaneo, 78 Pisa, Italy. Tel: 050-25080.

Model: Biblioteca

Description: 20 inch monitor mounted on top of the camera. Magnification from 8x to 45x. Brightness and contrast controls, image reversal, electronic window size and positioning to isolate a line of text or any portion of an image, x-y reading platform with margin and brake controls. Dimensions 480 x 480 x 810 mm; weight 18 kg.

Price: 3,700,000 lire

Model: Scuola

Description: Transportable television magnifier with camera and reading table being the two halves of a large briefcase. Image reversal. Magnification 8x to 40x. Dimensions 430 x 430 x 160 mm (closed) x 380 mm (open); weight 12 kg.

Price: 3,020,000 lire

LOW VISION INTERNATIONAL AB

Storgatan 30, S-352 31 Vaxjo, Sweden. Tel: 0470-14590.

UK agent: C Davis Keeler, 21-27 Marylebone Lane, London W1M 6DS, England. Tel: 01-935 8512.

USA agent: Elayo Americas Inc, PO Box 23927, Fort Lauderdale, Florida 33307, USA.

Model: Magnivision HC

Description: Comprises a 17 inch monitor, hand-held camera (300 gr.) and camera holder. Magnification: held in hand 13x - 38x, in the holder 100mm above object 5x - 23x (with extra illumination). Adjustable screen angle. Contrast enhancement and image reversal. Electronic masking.

Price: 25,400 Swedish Kronor

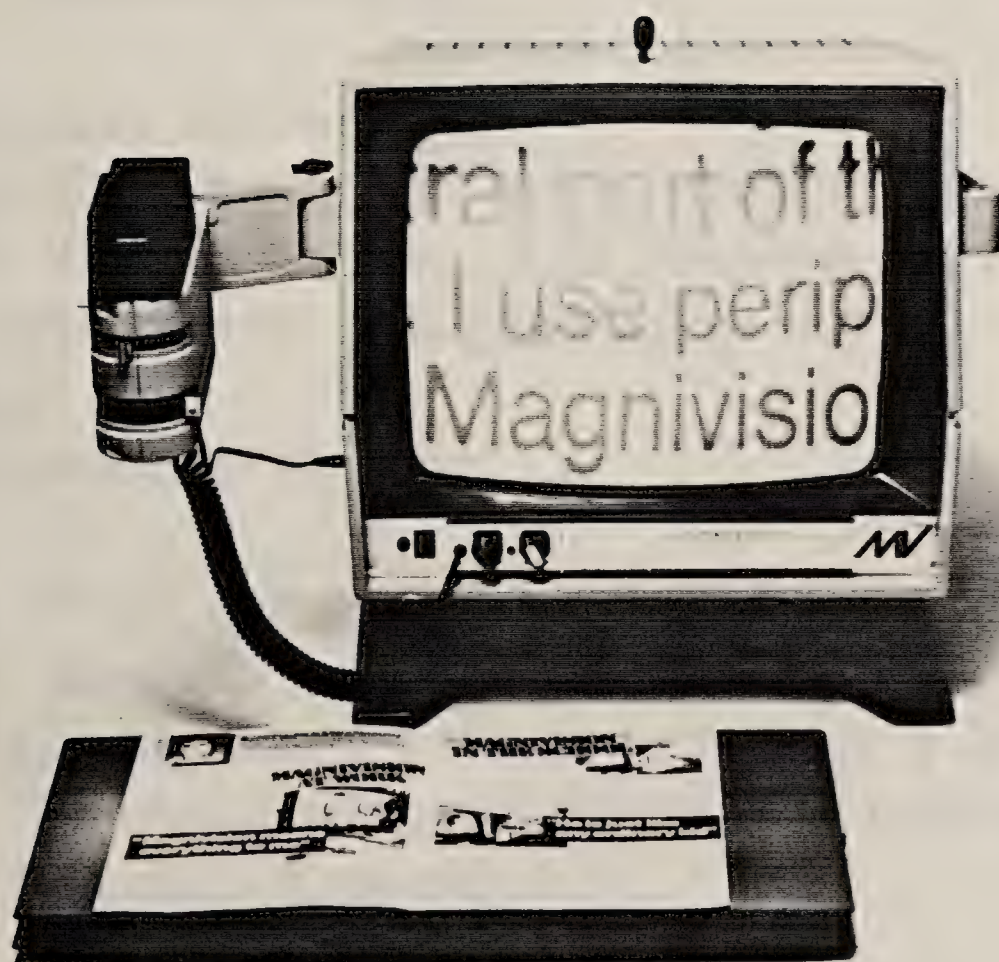
Model: Magnivision TS

Description: Similar to HC but the camera is mounted in a table stand. Magnification 6x - 36x. Depth of field: max 150 mm, min 24 mm. Distance camera-table: 300 mm.





Magnivision TS (Low Vision International)



Magnivision CA (Low Vision International)



Price: 34,000 Swedish Kronor

Model: Magnivision CA

Description: Similar to HC but the camera is mounted on a bracket which can swivel through 270 degrees. Magnification 5x – 30x. Depth of field: max 150 mm, min 18 mm. Distance camera-table: 300 mm.

Price: 31,000 Swedish Kronor

Model: Magnilink

Description: Portable system using a hand-held camera, electronic control box and a television set which can be a domestic receiver. Magnification from 9x to 54x.

Price: 16,000 Swedish Kronor without TV; 18,600 Swedish Kronor with 17 inch monitor

Extra: Reference and framing module

Description: Permits horizontal lines or frames on screen. Can be used for split-screen with two cameras; separate contrast, light, focus and magnification controls. A second version permits vertical lines or frames.

Price: 2000 Swedish Kronor

Extra: Typewriter camera

Description: Can be used with moving head typewriters such as the IBM Selectric. The camera moves horizontally across the typewriter. Magnification 12, 20 or 28x with 17 inch monitor.

Price: 7000 Swedish Kronor

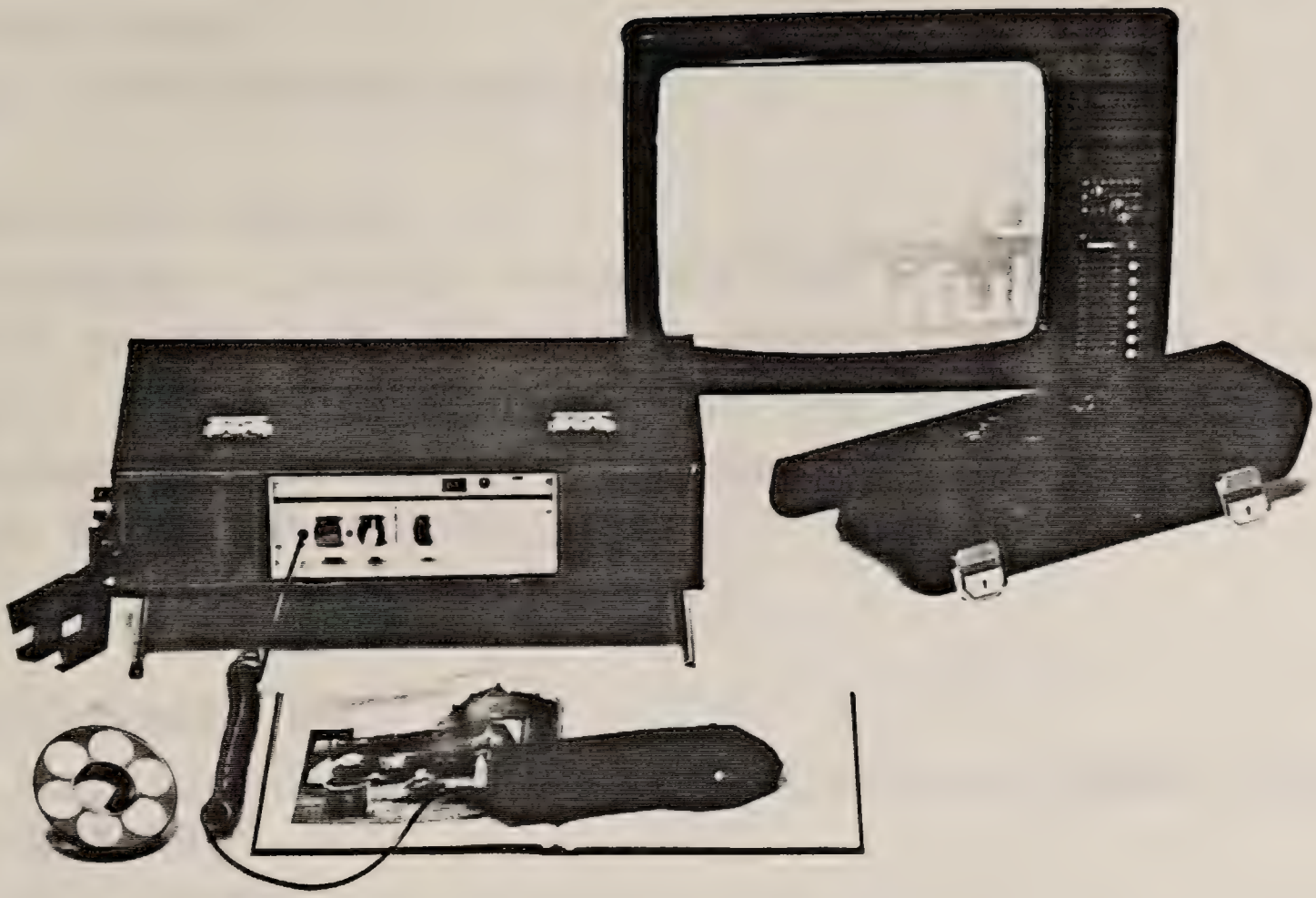
Extra: Long range camera

Description: Camera with zoom lens and direct joystick control. Main application is for reading a blackboard in a classroom. Practical magnification at 3 metres is 2x – 12x.

Price: 6300 Swedish Kronor

Extra: Reading table

Description: X-Y table with 'clicks' to indicate movement



Magnilink (Low Vision International)



Typewriter camera (Low Vision International)

in the Y axis.

Price: 2400 Swedish Kronor

Extra: VDU camera

Description: Camera mounted on a pair of x-y sliders which permit it to be moved around the screen of a visual display unit. The frequency of the Magnivision has to be matched to that of the visual display unit.

Price: 9300 Swedish Kronor

PELCO SALES INC

351 East Alondra Blvd, Gardena, California 90248, USA. Tel: 213-321 5591.

Model: LVA501

Description: 19 inch monitor display. Solid-state 2:1 interlace vidicon camera. 7x to 43x magnification. Dual multi-level illuminators use inexpensive replacement lamps. Positive/negative image selectivity. Large 14 inch by 19 inch scanning table, 12 inch travel range, adjustable drag and margin stops. Mounted on highly versatile heavy-duty leg frame with casters for high mobility. Typewriting capability without attachments. Operates from 117 volts, 60 Hz supply.

Price: \$2275

Model: LVA401

Description: 19 inch monitor display. Solid-state 2:1 interlace vidicon camera. 7x to 43x magnification. Dual multi-level illuminators use inexpensive replacement lamps. Positive/negative image selectivity. 14 inch by 19 inch scanning table with 12 inch travel range, adjustable drag and margin stops. Typewriting capability without attachments. Operates from 117 volts, 60 Hz supply.

Price: \$2175



3-24M (Philips Nederland)



PN-5000 (Philips Nederland)

PHILIPS NEDERLAND BV

**Marktgroep Ziekenhuizen, Boschdijk 525, NL 5600 PB
Eindhoven, The Netherlands. Tel: 040-78 27 61.**

Model: Television Magnifier 3-24M

**Description: Closed circuit television with the 61 cm monitor mounted over the camera and reading table. The camera is mounted horizontally and the image of the book is reflected in a mirror. Magnification from 3x to 24x. Dimensions 790 x 650 x 420 mm; weight 50 kg.
Price: 4,640 Dutch Florins**

Model: Television Magnifier PN-5000

**Description: Closed circuit television camera with a 44 cm monitor and a separate camera with reading table. The camera is mounted vertically. Magnification between 3x and 32x. Dimensions 700 x 560 x 520 mm; weight 38 kg.
Price: 3950 Dutch Florins**

REINECKER VIDEOTECHNIK GMBH

Darmstadter Strasse 3, D-6101 Bickenbach, German Federal Republic. Tel: 06257 4897.

Model: Videomatic E

**Description: Camera and monitor are an integral unit. Magnification 3x - 45x. Positive or negative image. 44 cm (20 inch) monitor. Built-in electronic line cover and contrast amplifier. Operation from 220 volt, 50 Hz supply.
Price: 5423 Deutsche Mark**

Model: Videomatic B

**Description: Integral camera and monitor with 17 x 32 cm screen. Magnification from 3x to 40x. Image reversal. Power requirements 220 volts, 50 Hz, 100 watts.
Price: 5260 Deutsche Mark**

Model: Videomatic Z

Description: Separate camera and monitor. Magnification 5x - 25x or 10x - 40x (20 or 24 inch monitor).



Videomatic E (Reinecker Videotechnik)



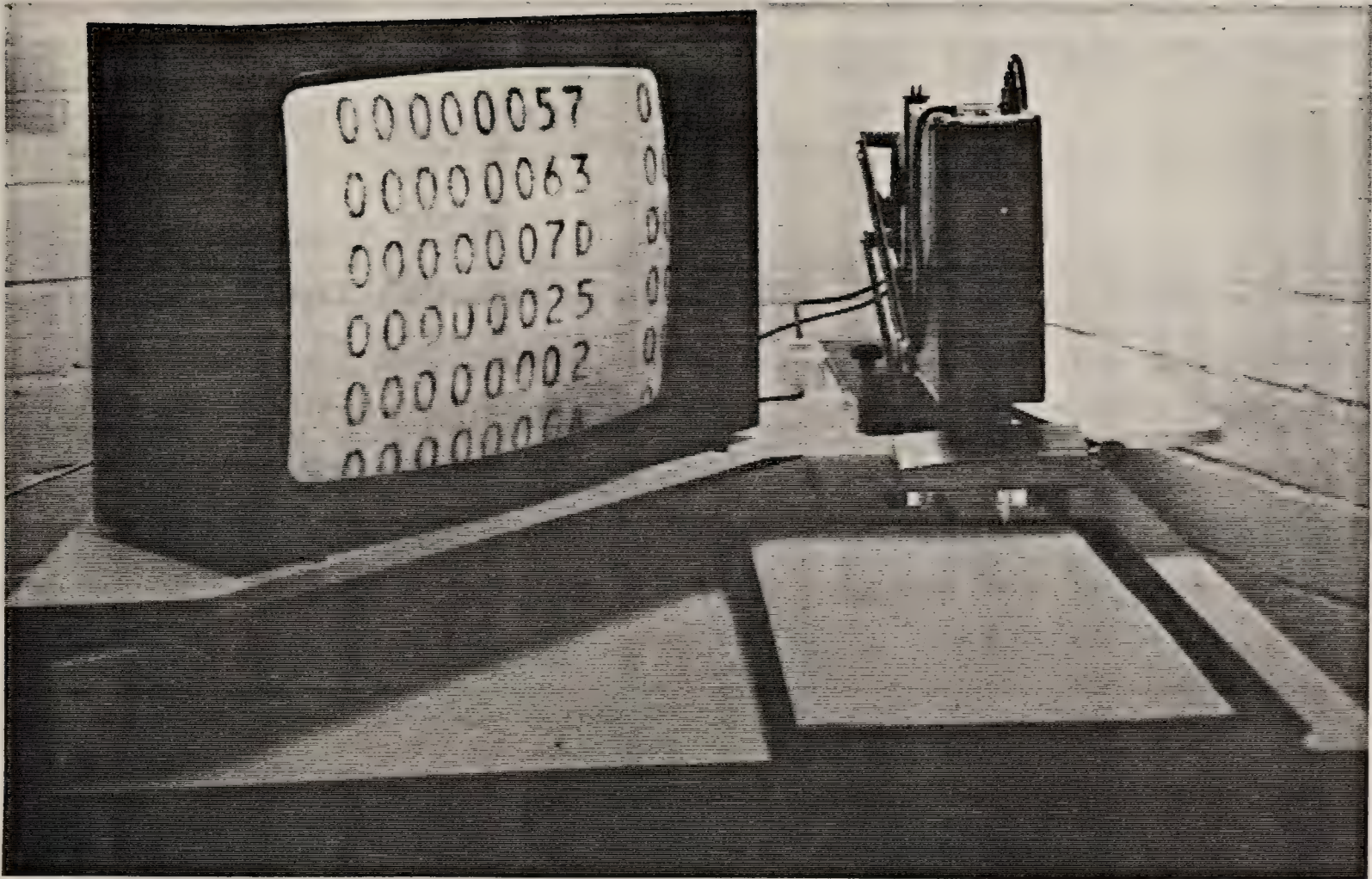
Videomatic B (Reinecker Videotechnik)



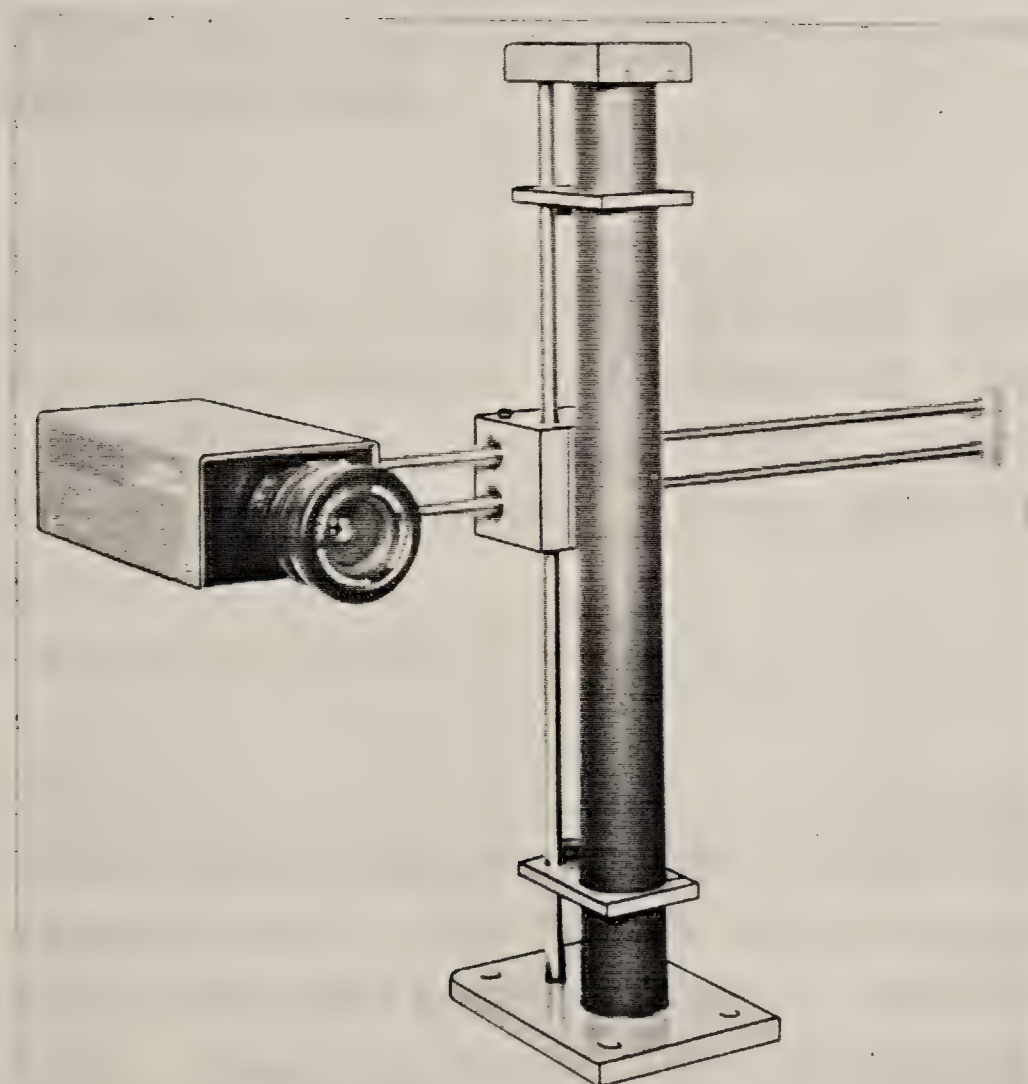
Videomatic Z (Reinecker Videotechnik)



Videomatic ESP (Reinecker Videotechnik)



Videomatic EDL (Reinecker Videotechnik)



Videomatic T (Reinecker Videotechnik)

Magnification adjustment is by an electric motor upon push button operation. Electronic mask, positive and negative image. Can be used with a moving carriage typewriter.
Price: 6140 Deutsche Mark

Model: Videomatic ESP

Description: Two cameras and one monitor. Magnification 5x – 40x with 24 inch monitor. A control knob enables the image split to be controlled by percentage; or one image only to be shown. The magnification of the two images can be controlled independently. Both images can be negative or positive; when both halves of the image are negative, there is a white 3 cm electronic line.

Price: 10,820 Deutsche Mark

Model: Videomatic EDL

Description: Separate camera and monitor. Magnification 5x – 40x with 24 inch monitor. The table has been designed for the special requirements of computer programmers; the table has the size of a double computer sheet. Electronic masking, positive and negative images, contrast amplifier.

Price: 7410 Deutsche Mark

Model: Videomatic T

Description: Horizontally mounted camera with movement vertically and horizontally for reading visual display units. Magnification 1x – 15x. Pure black and white scanning with no grey tones. Only operates with the Videomatic Z, ESP or EDL.

Price: 4980 Deutsche Mark

Model: Videomatic C

Description: Separate colour camera and monitor giving up to 25x magnification with a 26 inch monitor. A video recorder can be connected to the monitor, and TV programmes may be received. Reading table with underlight for viewing transparencies.

Price: 8830 Deutsche Mark

Extra: Videomatic M

Description: Motor-controlled reading table for use by the finger disabled. Only operates with Videomatic Z, ESP or EDL.

Price: 3400 Deutsche Mark

Extra: Videomatic R

Description: Electronic calculator display which is directly connected so that it appears on one half of a split screen display.

Price: 1980 Deutsche Mark

STEAM STORAGE CO LTD

The Factory, Leat Street, Tiverton, Devon EX16 5LL, England.

Tel: 0884-254949.

Model: Horizon

Description: Compact system with camera mounted at fixed height above reading table. Output on domestic television receiver or video monitor. Image reversal.

Price: £695 excluding monitor; £795 portable version with carrying case

Model: Focus Mk II

Description: Separate camera and monitor. Magnification 5x - 50x with 12 inch monitor, 8x - 75x with 17 inch monitor, and 10x - 80x with 20 inch monitor. Positive and negative images, image enhancement, simple hand focussing, built-in light source, special x-y platform which can be removed for use with a typewriter.

Price: £935 with 12 inch monitor, £990 with 17 inch monitor, £1065 with 20 inch monitor.

Model: Focus Mk II (M)

Description: As above, less monitor. Can be connected to any standard domestic receiver.

Price: £695



Focus Mk II (Steam Storage)



Reader (Tagarno)

Model: Focus Mk IV

Description: Colour system with separate camera and 20 inch monitor. Magnification 3x – 30x. Simple hand focussing. Built-in light source. The x-y reading table can be removed when using a typewriter. The television display can also receive broadcast programmes.

Price: £1645

Extra: Electronic line mask

Description: Allows the user to blank out that part of the display screen which is not being read. The undimmed band across the screen is variable in both width and position over the entire screen area.

Price: £170

TAGARNO A/S

Hattingvej 5, DK-8700 Horsens, Denmark. Tel: 05-629600.

Model: Reader

Description: Closed circuit television with the 20 inch monitor mounted over the camera. The whole system is mounted on a robust floor-mounted trolley. Magnification 3x to 40x. Weight 64 kg.

Model: Video-lup

Description: Desktop 20 inch monitor with hand-held camera. Magnification 5x to 30x.

TELEREADER

8450-A Production Avenue, San Diego, California 92121, USA.

Tel: 714-578 2910.

Model: Telereader II

Description: Camera lenses and stand provided for use with an US domestic TV receiver or monitor. Magnification up to 31x, black on white image, and white on black. Open desk unit without trays.

Price: \$960; \$39 tray option

TELESENSORY SYSTEMS INC

455 North Bernardo, PO Box 7455, Mountain View, California 94039, USA. Tel: 415-960 0920.

Model: PortaReader II

Description: One piece, lightweight portable system with 12 inch monitor, low voltage camera with built-in typewriter viewing capability, electronic window, image reversal, and special 6:1 zoom lens (6x – 45x magnification).

Price: \$2300

Model: Imager Model 100

Description: 19 inch monitor on stand, and separate vertically-mounted low-voltage camera with pan and tilt capability, built-in typing aid, electronic window, image reversal, x-y reading platform and special 6:1 zoom lens (6x – 60x magnification).

Price: \$2800

Model: Imager Model 200

Description: Integral 19 inch monitor mounted over camera. Quartz-halogen illuminator, built-in x-y reading platform, adjustable electronic window, image reversal, magnification 4x to 45x.

Price: \$2725

Model: Dual Image II

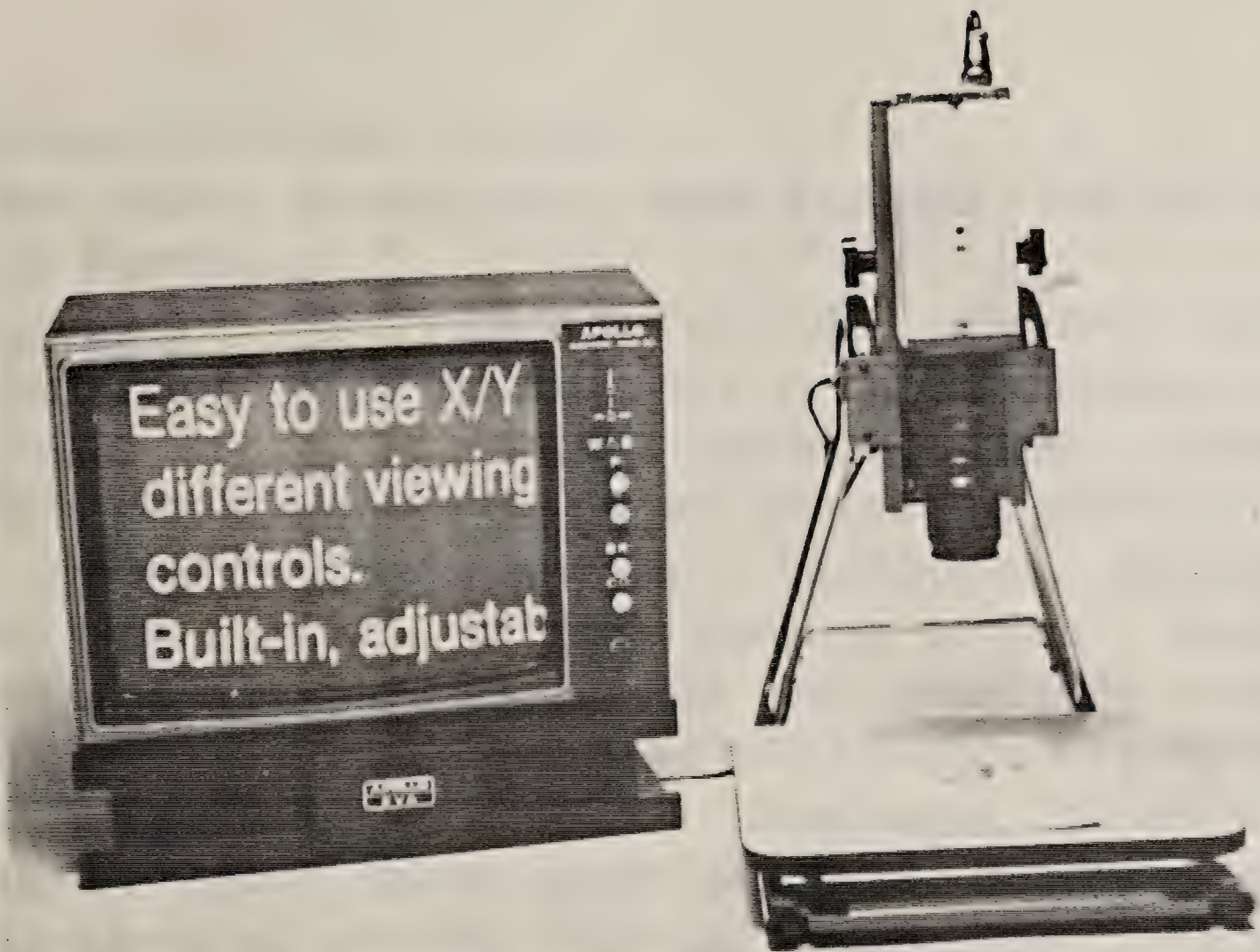
Description: Permits simultaneous viewing of two different objects on split screen. 19 inch monitor, two cameras with zoom lenses, two x-y reading platforms and two stands.

Price: \$4750

Extra: CRT Readout System

Description: Pan and tilt motor drive, camera mount and joystick and foot control.

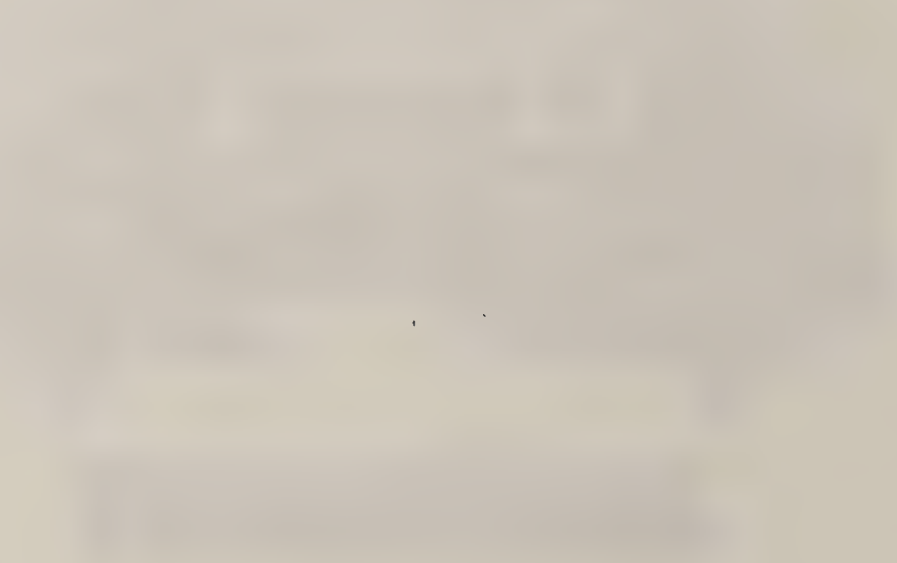
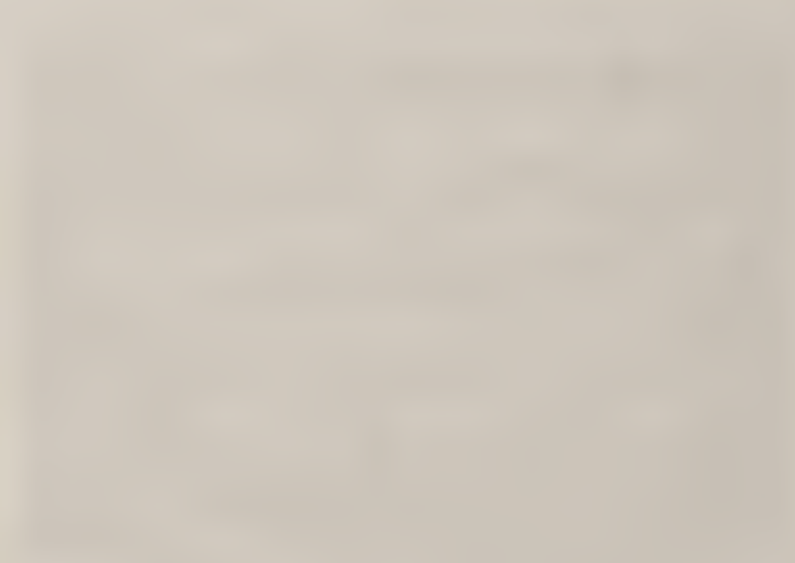
Price: \$1050



Imager Model 100 (Telesensory Systems)



Imager Model 200 (Telesensory Systems)



TELEVAID SYSTEMS CO LTD

PO Box 15081, Wellington 1, New Zealand. Tel: 04-728 273.

Model: Portavaid

Description: The viewing module, pivoted within a tubular frame, rolls up from the compact carrying position to clamp at an appropriate viewing angle. Single x-y platform, steel topped to attract magnetic hold-down strips. High efficiency fluorescent lamp illuminator. Magnification range 1.6x to 45x. 12 inch viewing screen. Apart from standard +/- contrast reversal and electronic windowing facility, two further modes of advanced enhancement circuitry can be switched in. Anahance, to enhance the edges of badly inked print on poor quality paper and Digihance to expand the contrast to pure black and white of poor contrast coloured ink on coloured background. Optional external drive for two camera split screen operations. Assembled in left and right hand versions.

Price: NZ\$2154

Model: Prescription System

Description: Stainless steel column mounted on base board supports spring counterbalanced camera arm. High resolution, professional grade camera on tilt head for adjustable viewing angle. Image reversal. Magnification range 2.2x to 60x. Fully adjustable fluorescent illuminator. 17 inch monitor on universal head to provide optimum viewing angle. Monitor mounted on articulated arm fully adjustable for height on column, left and right handedness. Single x-y platform, steel topped to attract magnetised hold-down strips is standard. Optional double x-y platform for more efficient information transfer is also available. Image processing module for electronic windowing and enhancement modes as for the Portavaid above optional. External drive for two camera split screen is optional.

Price: NZ\$2220 to NZ\$2699

Extra: Video controller

Description: The video outputs of two Televaid systems may be synchronised by the video controller, and displayed on a common monitor in one of the following modes: Video A; Video B; Video A superimposed on Video B; Video A windowed; Video A windowed on background on Video B; Video A vertically split alongside Video B. All electronic divisions on the screen can be infinitely varied.

Price: NZ\$980

Extra: Copy system

Description: As Prescription System but without monitor and its mounting arm, connected to primary Televaid system through the Video controller.

Price: NZ\$1733

F J TIEMAN BV

Moolhoek 5, Postbus 592, 3235 ZH Rockanje, The Netherlands.

Tel: 01814-2477.

Model: Mini TV-leesloep

Description: Closed circuit television with the 310 mm monitor mounted over the camera and reading table. Magnification from 3x to 35x. Image reversal and electronic window. Dimensions 600 x 350 x 370 mm.

Price: c 5900 Dutch Florins

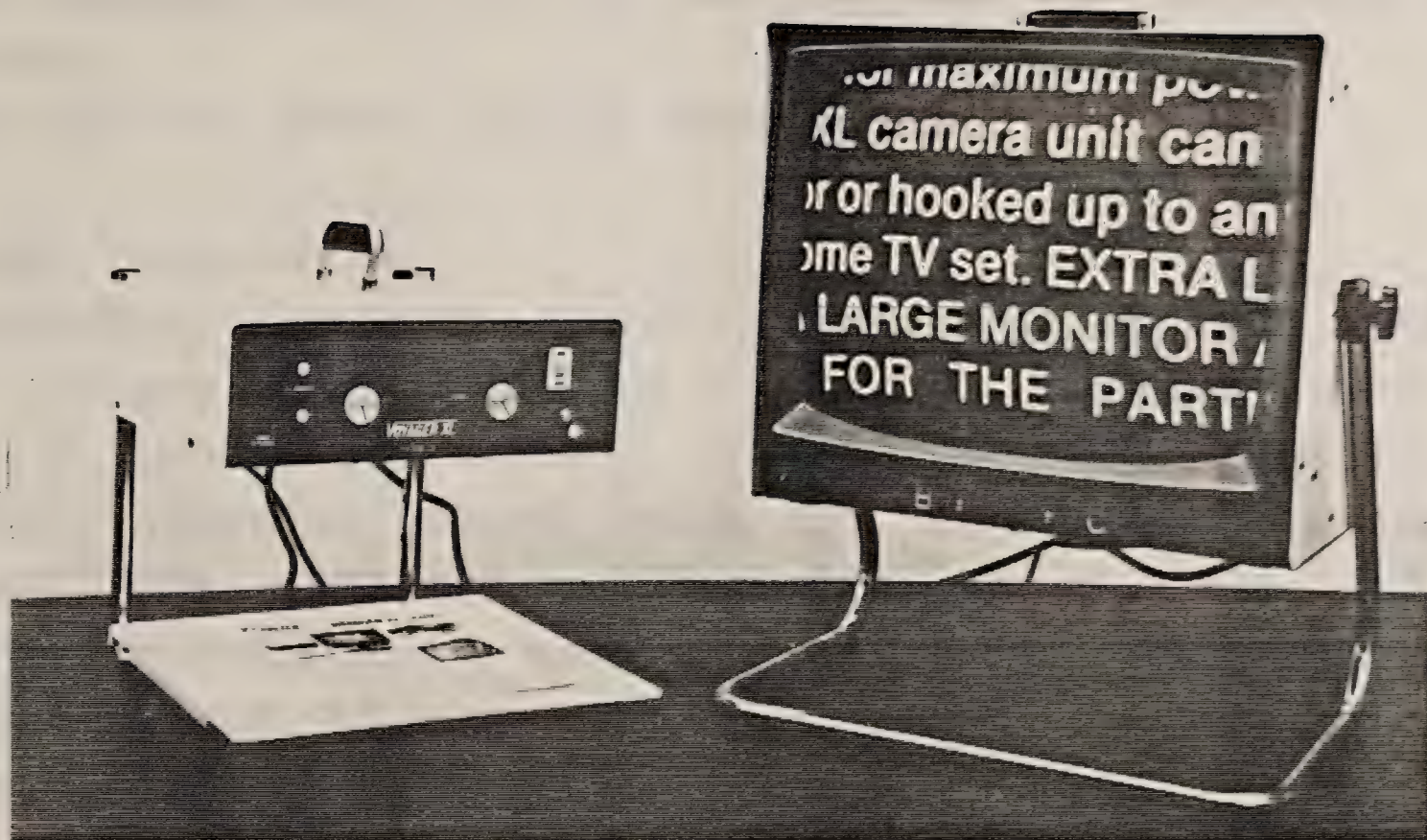
VISUALTEK

1610 26th Street, Santa Monica, California 90404, USA. Tel: 213-829 6841.

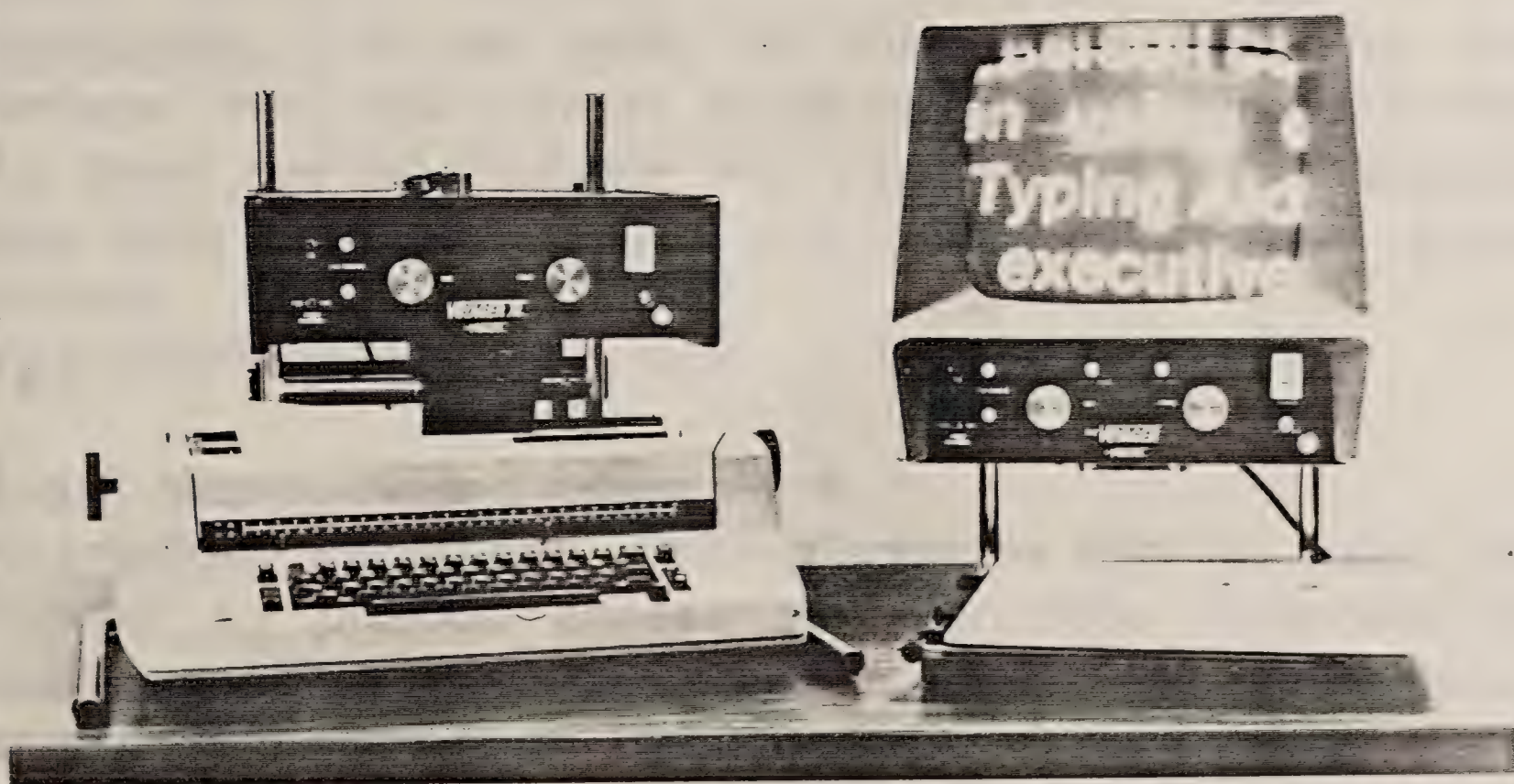
UK agent: Visionaid Systems, Office Number 7, Enterprise Workshops, Riverside Way, The Meadows, Nottingham, England. Tel: 0602-864732.

Model: Voyager VR

Description: Camera, lens and monitor (12 inch) completely self-contained with front-mounted controls.



Voyager XL (Visualtek)



Typing Aid System (Visualtek)

Magnification from 3x to 45x. Built-in non-glare fluorescent illumination, positive/negative images selectivity, electronic line markers, aperture preset capability. Fully portable with built-in carrying handle. Optional green display.

Price: \$2195; green display \$200 extra

Model: Voyager XL

Description: Separate camera, lens and 19 inch monitor. The camera is mounted on a compact foldable stand with built-in handle and master on/off control. Electronic line marker, monitor stand with tilt adjustment, protective covers are standard. Available as options are the typewriter accessory, lens and key lock. Magnification is 4x to 60x with 19 inch monitor.

Price: \$2595

Model: CRT Viewing System

Description: For use with Voyager XL system plus second camera, lens and special stand for viewing visual display units. Magnification 3x to 20x.

Price: \$1915 without monitor

Model: Typing Aid System

Description: For use with all typewriters including fixed carriage ones; the camera is mounted over the typewriter. The basic system includes one camera, but it is frequently used with a second camera and one monitor (split-screen display).

Price: \$2000 without monitor

Model: Microviewer System FS-6

Description: Microfiche viewing system can be used with Voyager to provide access to microfiche materials and regular reading material simultaneously via split screen feature. Enlarges from 200x to 600x. Rotary micro-motion control for line scanning, and push-pull control for vertical motion. Accommodates microfiche up to 4 x 6 inches

(102 x 152 mm), film strip in holders, or standard microcard. The image is electronically enhanced and can be displayed in a positive or negative image.

Price: \$1495 without monitor

WORMALD INTERNATIONAL SENSORY AIDS LTD

PO Box 3044, Christchurch, New Zealand. Tel: 3-794 011.

UK agent: 7 Musters Road, West Bridgford, Nottingham NG2 7PP, England. Tel: 0602-820600.

USA agent: Telesensory Systems Inc, 455 North Bernardo, PO Box 7455, Mountain View, California 92121, USA. Tel: 415-960 0920.

USA agent: Sensory Aids Corporation, Suite 110, White Pines Office Centre, 205 West Grand Avenue, Bensenville, Illinois 60106, USA. Tel: 312-766 3935.

Model: Viewscan

Description: Portable reading aid with hand-held fibre optic camera. Enlarges from 4 to 64 times in 8 steps. Positive or negative image. Has automatic and manual threshold, and brightness controls. Display is orange neon light on matrix of 7000 light pixels arranged 50 x 140. Screen size 80 x 230 mm. Dimensions 210 x 395 x 50 mm; weight 4.5 kg.

Price: US\$2480 to US\$2770



Viewscan (Wormald International)



MAGNIFICATION OF VISUAL DISPLAY UNITS

Visual display units are of two types: the storage tube or a regenerative display. A storage tube display is now seen only rarely. With this type, the picture must be redrawn completely if one item is to be changed. But its advantage is that there is no flicker in the screen image. A regenerative display has a picture created in a manner similar to that of a conventional television set. Thus usually it does show some flicker. The flicker is a function of the frequency of the electron beam's sweep of the display and the persistence of the phosphor glow of the screen. The longer the persistence the less the flicker, but the greater a moving image is blurred.

The main methods for magnifying the image of a visual display unit are conventional optical aids, enlargement of the display, closed circuit television reading aids and special aids.

Conventional optical aids: The simplest form of optical aid is a hand or stand magnifier. These may be tiring to use for any length of time. It may help to mount the magnifier on the visual display unit. Thus, a bar magnifier can be mounted on sliders fitted to both sides of the screen. Alternatively, the magnifier can be installed on an arm like the Anglepoise lamp.

Spectacle magnifiers are available as microscopic or telescopic lens system. For higher magnifications it is often helpful for the user to have a reading stand so that the screen and any printed material are at the same distance from the eyes.

Display enlargement: For low orders of magnification it is sometimes possible to substitute a larger screen in the visual display unit. It may be possible to modify the

computer program controlling the visual display unit and magnify the image. This technique produces good results, but it is expensive since the modification differs for each type of visual display unit.

Closed circuit television reading aids: If a television camera is pointed at a television display, severe striation effects usually appear in the monitor because the two pictures are out of synchronisation. This can be overcome by connecting the camera to the display so that the two systems scan in synchronisation. For a visual display unit, the synchronisation is much easier if there is an external video socket. The alternative is to delve into the internal electronics of the visual display unit; this is expensive and not practical if the visual display unit is rented or leased.

ARTS COMPUTER PRODUCTS INC

145 Tremont Street, Suite 407, Boston, Massachusetts 02111, USA. Tel: 617-482 8248.

Model: PC Lens

Description: Software package running on MSDOS providing large print output. Character size, spacing and colour are adjustable.

Price: \$495

Model: Expand-a-view

Description: Software package running on MSDOS providing large print output. Character spacing and colour are adjustable. The user is able to create files for automatically displaying messages.

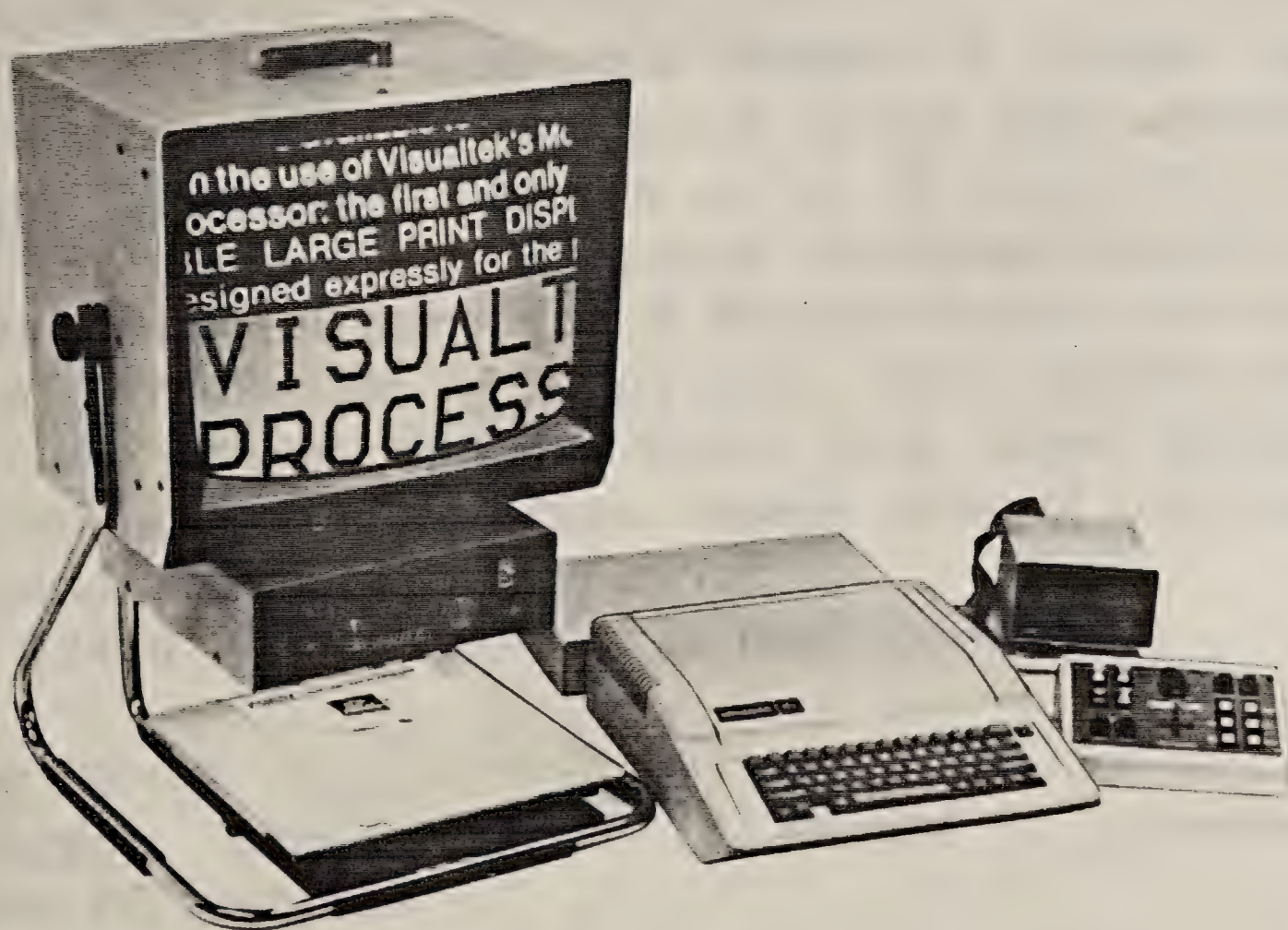
Price: \$495

F H PAPENMEIER GMBH & CO KG

Talweg 2, Postfach 1620, D-5840 Schwerte, German Federal Republic. Tel: 02304-16005.



Visulex (Papenmeier)



DP-10 (Visualtek)

Model: Visulex

Description: Electronic large print text display with a typewriter and disk drive. Adjustable colour and size of letters on the display. Parallel interface for ASCII or braille keyboard, 1200 baud serial interface for digital cassette, and 50 to 9600 baud RS232 interface. Storage capacity of 2 x 4000 bytes. Eight letter sizes (13 – 200 mm) can be displayed with 4 glide speeds (35 – 650 mm/sec). Choice of display of text in print or visual braille symbols. Optional colour selection for characters or background.

Price: \$3600 to \$8000

VISUALTEK

1610 26th Street, Santa Monica, California 90404, USA. Tel: 213-829 6841.

UK agent: Visionaid Systems, Office Number 7, Enterprise Workshops, Riverside Way, The Meadows, Nottingham, England. Tel: 0602-864732.

Model: DP-10

Description: Plugs into the Apple II, Apple II+, or Apple Ile computer as peripheral device and automatically enlarges the displayed letters up to 16 times their original size. The size of the characters displayed may be varied from 2x to 16x (140 mm high). A display window can be moved around with the aid of a joystick. Text moves smoothly across the screen, as on a ticker tape, when operating in the continuous reading mode. Image reversal and electronic line markers.

Price: \$2470 without monitor or microcomputer

Model: DP-11

Description: Similar to DP-10 except it operates with the IBM PC computer.

Price: \$2470 without monitor or microcomputer

WORMALD INTERNATIONAL SENSORY AIDS LTD

PO Box 3044, Christchurch, New Zealand. Tel: 3-794 011.

UK agent: 7 Musters Road, West Bridgford, Nottingham, England. Tel: 0602-820600.

Model: Viewscan Text System

Description: A flat panel display screen is linked to a keyboard to provide a compact portable display terminal. Characters up to 50 mm high are displayed in neon orange colour, and the display scrolls smoothly at selectable speed. The unit may function in any of the following modes: reading system, stand-alone personal computer, computer terminal, word processing system, or records system. The system incorporates a RS232 interface with keyboard selectable protocols and baud rates. An optional disk unit incorporates two double density 5.25 inch floppy disks with CP/M operating system.

Price: US\$3600 to \$4690 depending on configuration; \$1800 for disk unit



Viewscan Text System (Wormald International)

ELECTRONIC CALCULATORS

Electronic calculators with braille or speech output have been developed, but the braille devices are being largely superceded by speech calculators which are much cheaper. Those with residual vision frequently have problems with the visual displays on electronic calculators; some people find red displays particularly difficult to read.

CASIO ELECTRONICS CO LTD

Unit 6, 1000 North Circular Road, London NW2 7JD, England.

Tel: 01-450 9131.

Model: TA-1000

Description: Calculator with speech output.

Price: £34.95

MASTER SPECIALITIES CORP

1640 Monrovia, Costa Mesa, California 92627, USA. Tel: 714-642 2427.

Model: ARC 9500

Description: Voice output (16 word vocabulary) from 8-digit 8-function calculator.

Price: \$450

PANASONIC COMPANY

One Panasonic Way, Secaucus, New Jersey 07094, USA. Tel: 201-348 7000.

UK agent: National Panasonic (UK) Ltd, 300-318 Bath Road, Slough, Berkshire SL1 6JB, England. Tel: 0753-34522.

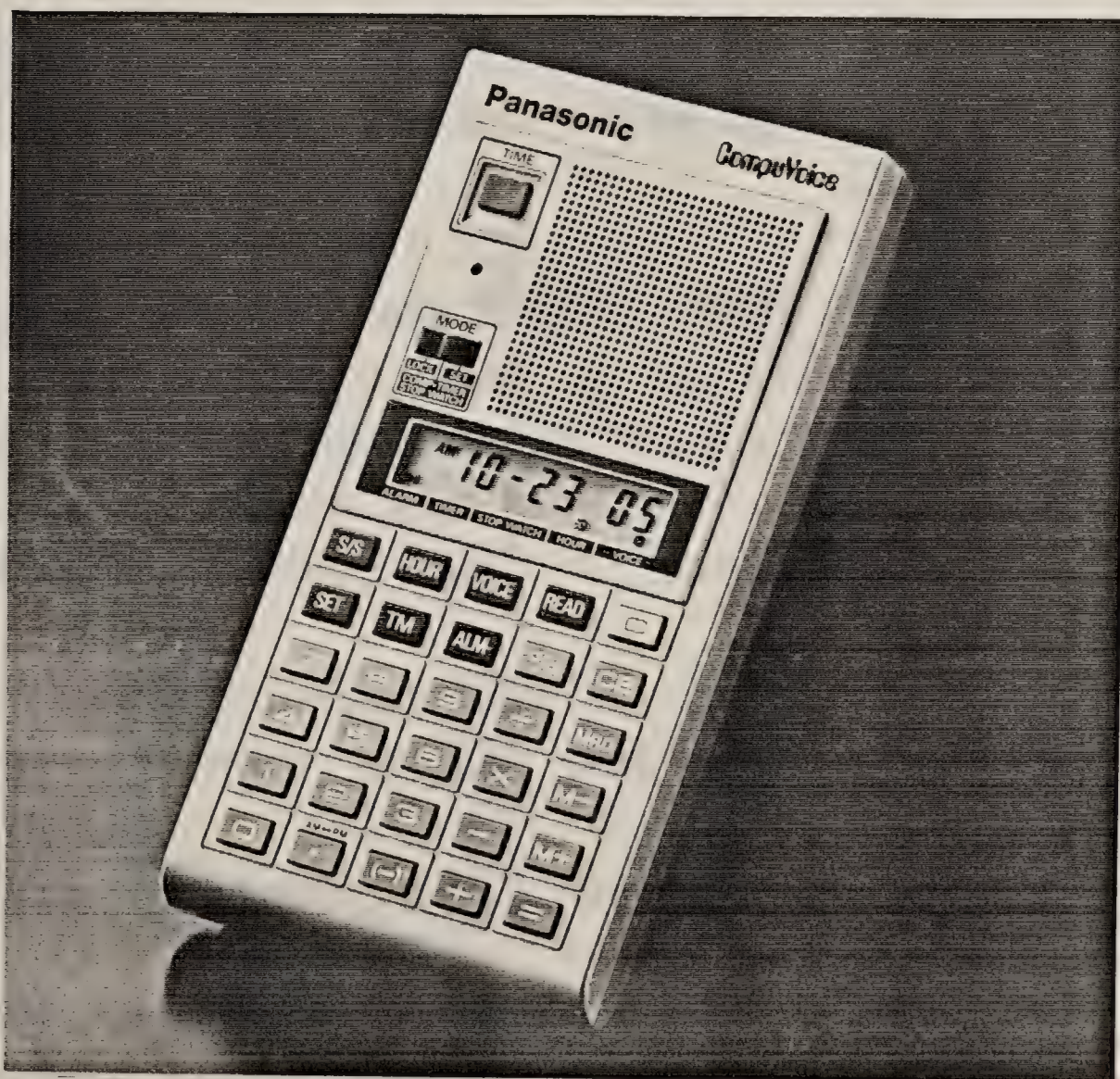
Model: Hand-held Talking Calculator JE-720U

Description: Eight digit display battery-operated calculator with speech output. Weight 190 g without batteries.

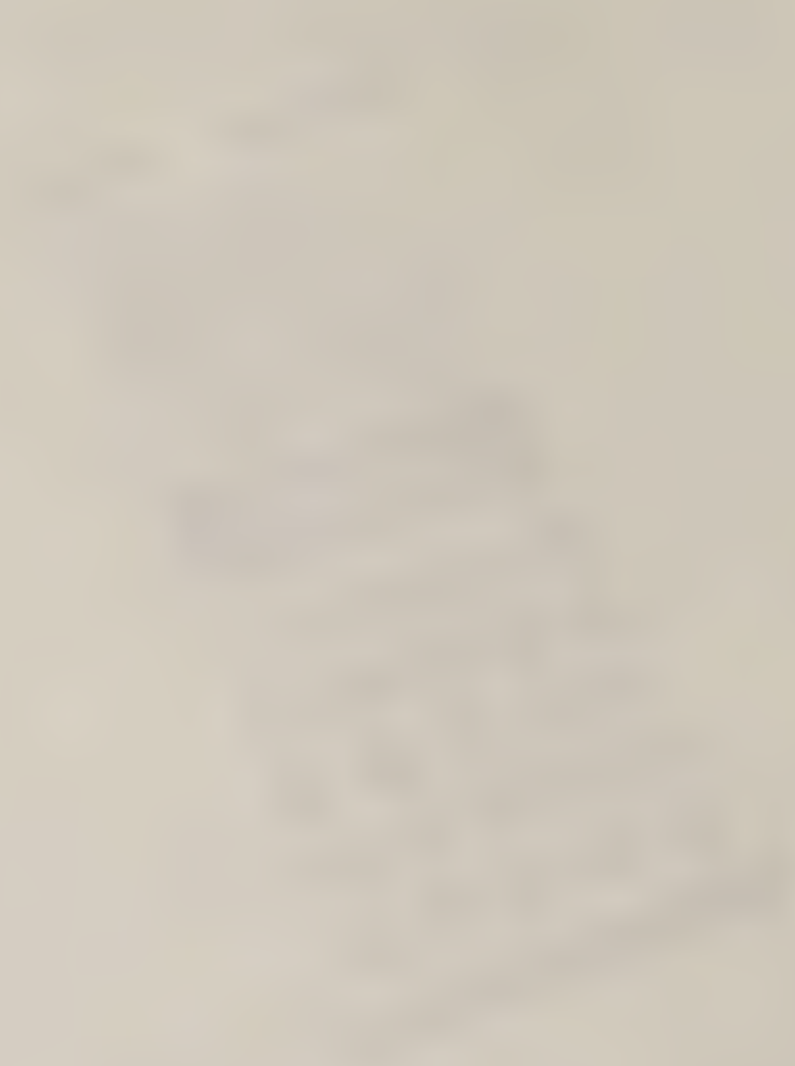
Price: \$34.95



JE-720U (Panasonic)



JE-721U (Panasonic)





Model: Hand-held Talking Calculator JE-721U

Description: Battery operated talking calculator which also includes a talking clock, countdown timer, stopwatch and alarm clock. Eight digit display. Weight 180 g without batteries.

Price: \$49.95

SENSORY INTERFACE EQUIPMENT INC

4442 Kasson Road, Syracuse, New York 13215, USA. Tel: 315-469 7182.

Model: Speech calculator

Description: Speech output for the Texas Instrument TI-58 and TI-59 scientific calculators. Two modes of operation – one in which all keystrokes are spoken and one in which the display is spoken only on demand. Housed in an attache case 300 x 200 x 75 mm.

Price: \$995 (calculator extra)

SCIENCE FOR THE BLIND PRODUCTS

Box A, Southeastern, Pennsylvania 19399, USA. Tel: 215-296 2111.

Model: Hewlett Packard 32E

Description: Broad statistical and scientific capability. 15 levels of memory, and 4 registers. Braille output is embossed on half inch wide paper tape. Speech version includes an earphone and jack.

Price: \$750 for braille; \$595 for speech

Model: Hewlett Packard 32C

Description: Similar to 32E but with advanced programmable features.

Price: \$850 for braille; \$595 for speech

Model: Hewlett Packard 38C

Description: Advanced financial programmable calculator with continuous memory.

Price: \$850 for braille; \$595 for speech

Model: Calcu-tac 97

Description: Programmable manually and by magnetic card.

Price: \$1525 for braille; \$1250 for speech

Model: Canon Voice Calculator

Description: Calls out numerals and functions as they are keyed in, or reads out data stored in the memory. Includes printer.

Price: \$395

SHARP ELECTRONICS CORPORATION

10 Sharp Plaza, Paramus, New Jersey 07652, USA. Tel: 201-265 5600.

Model: EL-640

Description: Talking clock/calculator with basic four function calculator with 8 digit display. Dimensions 77 x 20 x 154 mm.

Price: \$89.95

Model: EL-620

Description: Hand-held 8 digit basic calculator with voice synthesized announcements. Dimensions 77 x 11 x 144 mm.

Price: \$59.95



EL-640 (Sharp Electronics)

CLOCKS AND WATCHES

Traditionally time pieces for the blind were conventional clocks and watches with raised markings. The most notable exception was the hunter repeater pocket watch which tapped out the time to the nearest quarter of an hour; unfortunately these timepieces are now collectors' items so beyond the price most blind people can afford.

Recent developments have concentrated on watches with clear visual markings and with synthetic speech output. Some of the speaking clocks are not sufficiently robust for use by visually disabled persons as a device for carrying in the pocket. Some speech devices can give the incorrect time at extremes of temperature (eg below freezing).

AMERICAN FOUNDATION FOR THE BLIND

15 West 16th Street, New York, New York 10011, USA. Tel: 212-620 2080.

Model: Panasonic RC 6810 talking clock radio

Description: AM/FM solid state radio with talking alarm clock (male or female voice), fluorescent clock/radio dial display, radio and/or buzzer alarm operation, doze button and a variety of announcements. Auto and manual time, calls out time automatically at 1 minute, 15, 30, or 60 minute intervals. Two alarms plus sure wake alarm. Silver tone cabinet. Size 305 x 89 x 140 mm.

Price: \$155

Model: Talking Time Quartz Travel Alarm

Description: A pocket size talking clock with alarm, countdown timer, hourly announcement and 5 minute snooze feature. Folds closed for travel, opens to stand on desk or night table. Size 75 x 95 x 20 mm.

CHAPTER 10

The first part of the chapter discusses the importance of the environment in the development of the human mind. It argues that the environment plays a crucial role in shaping the child's cognitive and emotional development. The second part of the chapter focuses on the role of the family in the child's development. It discusses how the family environment influences the child's behavior and attitudes. The third part of the chapter deals with the role of the school in the child's development. It discusses how the school environment influences the child's academic and social development.

The fourth part of the chapter discusses the role of the community in the child's development. It discusses how the community environment influences the child's behavior and attitudes. The fifth part of the chapter deals with the role of the culture in the child's development. It discusses how the cultural environment influences the child's behavior and attitudes. The sixth part of the chapter discusses the role of the media in the child's development. It discusses how the media environment influences the child's behavior and attitudes.

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Price: \$55

Model: Spartus audio visual clock

Description: Talking clock with LED display. Features voice volume control, dimmer switch, snooze alarm, automatic time announcement, Westminster chimes, calendar, and 3-day battery back-up in case of AC power failure. Size 50 x 152 x 127 mm.

Price: \$47

Model: AFB Quartz Alarm Clock

Description: Tactually marked quartz alarm clock. White markings on black face. Pulsating alarm that increases in intensity if not shut off. Snooze feature. Lightweight, modern design, plastic case.

Price: \$23.95

Model: Low vision men's and women's watches

Description: Flat, non glare crystals with black numbers and dials on a white background. Men's quartz watch 32 mm dial; women's quartz watch 25 mm dial. Available chrome-plated or gold-plated.

Price: \$35 chrome-plated; \$44.50 gold-plated

Model: Visi-time men's and women's watches

Description: Designed for persons with low vision. Non-tactual dial has large white numbers and hour markings on a black background. Manually wound, 17 jewel, shock resistant movement. Chrome-plated models have stainless steel expansion bands, gold-plated models have leather straps. Men's 25 mm dial; women's 19 mm dial.

Price: \$35 chrome-plated; \$44.50 gold-plated

Model: Large-digit long-ring timer

Description: A big 152 mm face timer with large black numbers on a yellow background. Times from 1 minute to an hour. Suitable for counter top or wall hanging.

Price: \$10.25

Model: Timemaster electric time switch

Description: Turns appliances and lights on and off for a 24 hour period, at hourly intervals. Outer dial has raised marks every hour, and inner dial is marked by raised dots at 6am and pm, midnight and noon. Table model has an outlet cord, and appliance plugs into unit. Not suitable for operating air conditioners. Capacity 1875 watts, 15 amps.

Price: \$18.50

Model: Marktime 60 minute timer

Description: Household timer, spring wound by a rotary knob. Dial has a single raised dot every 2.5 minute interval, and three raised dots at the 15, 30 and 45 minute points.

Price: \$12.50

Model: Marktime 60 second timer

Description: A single raised dot marks each 5 second interval, and three raised dots at the 15, 30 and 45 second points. This household timer is spring wound by a rotary knob.

Price: \$13

Model: Lux variable-ring 60 minute timer

Description: Household timer, spring wound by a rotary knob. Ring varies with length with each time setting, but may be adjusted to produce a long ring on any setting. Dial has raised mark for each minute and at every five minute point, also raised numerals.

Price: \$8.95

CHRONOSONAR AG

Bahnhofstrasse 10, CH-9000 St Gallen, Switzerland. Tel: 071-22 66 94.

Model: Alpha 1 wristwatch

Description: Electronic quartz watch with a digital display and an acoustic time indicator, which is activated by pressing a time call button. When operated the time is given in hours and minutes, by a set pattern of sounds and AM and PM can distinguished. The watch also has an separate alarm feature and the time is given in the same succession of sounds, and operated by an alarm button which can recall the set time without activating the alarm. The watch comes in a watertight steel or gold-plated housing, and an expandable steel or leather strap.

Price: 265 Swiss Francs

Model: Alpha 2 wristwatch

Description: This watch does not have a digital display, and works solely on the acoustic time signal as above. Alarm feature and presentation are the same. Ladies models dial diameter 20.5 mm; men's models dial diameter 29 mm.

DEUTSCHE BLINDENSTUDIENANSTALT EV

Am Schlag 8, PO Box 1160, D-3550 Marburg, German Federal Republic. Tel: 06421-67053.

Model: Wehrle desk alarm clock

Description: White dial with large black numerals housed in a round metal case. Cover is marked with tactual dots. Alarm hand is at the centre also duplex alarm mechanism. Dial diameter 90 mm.

SCHWEIZERISCHER ZENTRALVEREIN FUR DAS BLINDEN- WESEN

Schutzengasse 4, CH-9000 St Gallen, Switzerland. Tel: 071-23 36 39.

Model: Cortebert Low Vision wristwatch 5.38

Description: White dial is marked with large black numerals. Incabloc quartz movement, held in a chrome-plated case, 17 jewel movement. Diameter 33 mm; weight 22 grams.

Price: 69 Swiss Francs

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes the need for transparency and accountability in financial reporting.

2. The second part of the document outlines the various methods and techniques used to collect and analyze data. It includes a detailed description of the experimental procedures and the statistical analysis performed.

3. The third part of the document presents the results of the study. It includes a series of tables and graphs that illustrate the findings of the research. The data shows a clear trend of increasing activity over time.

4. The fourth part of the document discusses the implications of the findings. It suggests that the results have significant implications for the field of study and may lead to further research in this area.

5. The fifth part of the document concludes the study. It summarizes the main findings and provides a final statement on the importance of the research.

Model: Corbert Low Vision wristwatch 5.68

Description: The dial face has no raised markings and the watch glass is not sprung. The dial is black and is boldly marked with white numerals notating 12, 3, 6 and 9; watch hands are also white. Diameter 24 mm; weight 16 grams.

Price: 65 Swiss Francs

SCIENCE PRODUCTS FOR THE BLIND

Box A, Southeastern, Pennsylvania 19399, USA. Tel: 215-296 2111.

Model: Speak Easy by Timex

Description: Speaking clock with large visual display of 25 mm numerals, and dimmer. Bedside or desk top model. 110 volt with battery backup when electricity fails. Low battery indicator. 9 volt battery included. 220 volt adapter available.

Price: \$70; \$10 for adapter

SHARP ELECTRONICS CORPORATION

10 Sharp Plaza, Paramus, New Jersey 07652, USA. Tel: 201-2655 5600.

Model: EL-640

Description: Talking clock/calculator with basic four function calculator with eight digital display. Dimensions 77 x 20 x 154 mm.

Price: \$89.95

MONEY HANDLING AIDS

The problems of handling coins and paper currency vary from country to country. Unfortunately most paper notes are printed in pastel shades since they are harder to forge than primary colours. In many countries the different denominations of notes are physically different in size; occasionally there are embossed markings but these tend to deteriorate if the note has been in circulation for some time.

Coins are easier to differentiate if handled singly in a warm environment; however a more typical situation is that the blind person has a handful of mixed coins, is outdoors and in very poor lighting conditions. It is in this latter situation that simple coin identifiers can be of most use.

AMERICAN FOUNDATION FOR THE BLIND

15 West 16th Street, New York, New York 10011, USA. Tel: 212-620 2172.

Model: Paper money identifier 652

Description: To assist in differentiating US bank notes of \$1, \$2, \$5, \$10 and \$20 denominations. The denomination of a note is provided by spoken voice output. Dimensions 88 x 152 x 425 mm; weight 2.8 kg.

Price: \$625

DEUTSCHE BLINDENSTUDIENANSTALT EV

Postfach 1160, Am Schlag 8, D-3550 Marburg, German Federal Republic. Tel: 06421-67053.

Model: Coin box

Description: Coin box for holding six different sizes of German coins in spring-loaded compartments.

Price: 4.60 Deutsche Mark

Model: Bill identifier

Description: Plastic sheet on which the lengths of German bank notes are marked, so different denominations can be easily identified. Size 80 x 175 mm.

Model: Coin and bill identifier

Description: Coin and bank note identifier for German currency, plastic, size 74 x 15 x 5 mm.

JAPAN BRAILLE LIBRARY

23-4 Takadanobaba 1-chome, Shinjuku-ku, Tokyo 160, Japan.

Tel: 03-209 0241.

Model: Coin holder

Price: 900 Yen

LLOYDS BANK PLC

Public Relations Department, 71 Lombard Street, London EC3, England. Tel: 01-626 1500 ext 2517.

Model: Note gauge

Description: By placing a British bank note against the lip, the denomination can be easily determined from the five steps which correspond to the width of the notes. Made in matt black plastic with clear white visual markings. Size 96 x 50 mm.

Price: Free

NAB LOUIS BRAILLE MEMORIAL RESEARCH CENTRE

Rustom Alpaiwalla Complex, 124-127 Cotton Depot, Cotton Green, Bombay 400 033, India. Tel: 8726103 & 8726748.

Model: Notex

Description: A pocket-size device that differentiates Indian currency notes of different denominations. Consists of a rectangular base and flap hinged together, made of high density polythene. Separate models with braille instructions in Hindi and English languages are available.

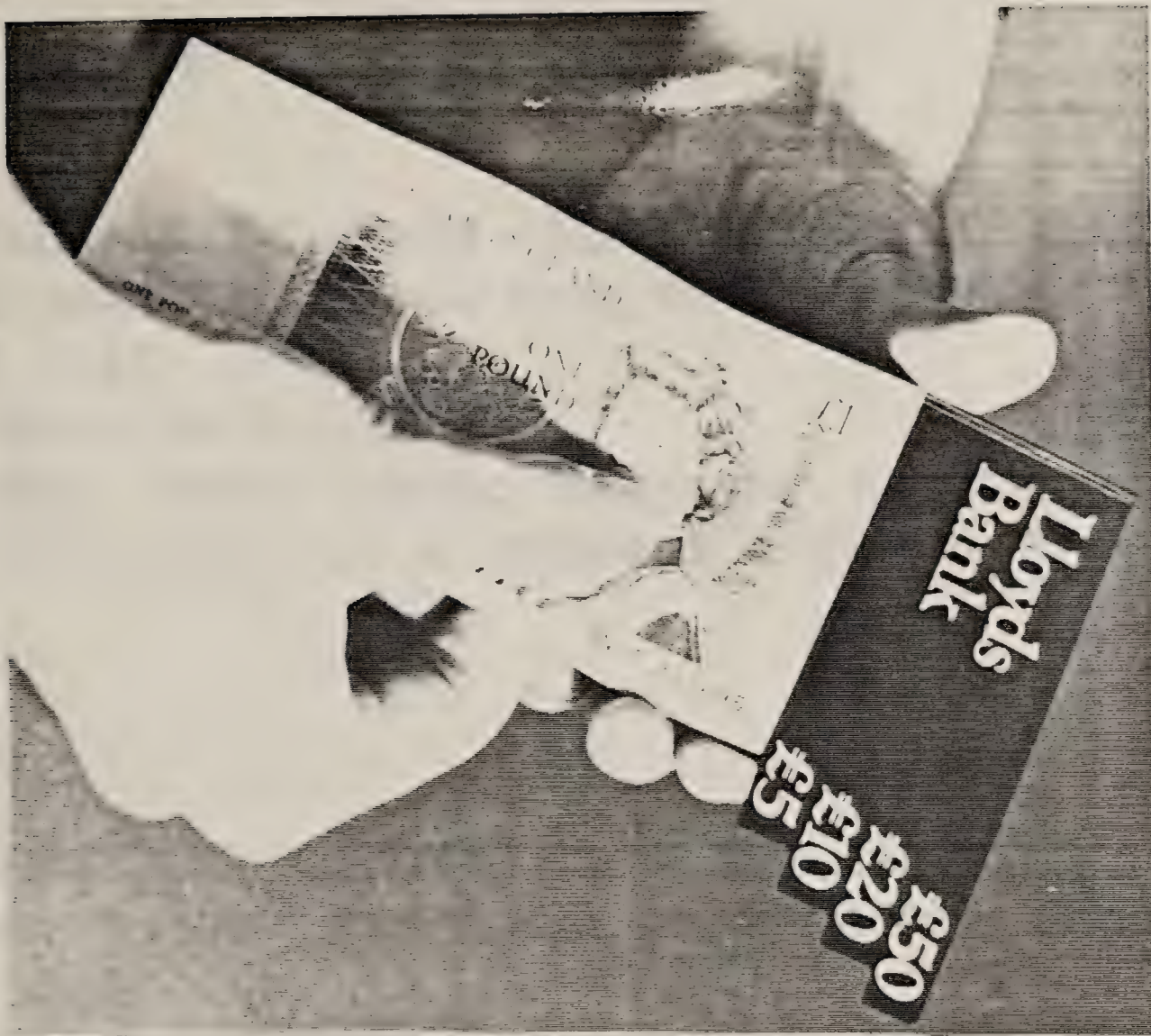
THE UNIVERSITY OF CHICAGO
DEPARTMENT OF THE HISTORY OF ARTS
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CHICAGO, ILLINOIS 60637

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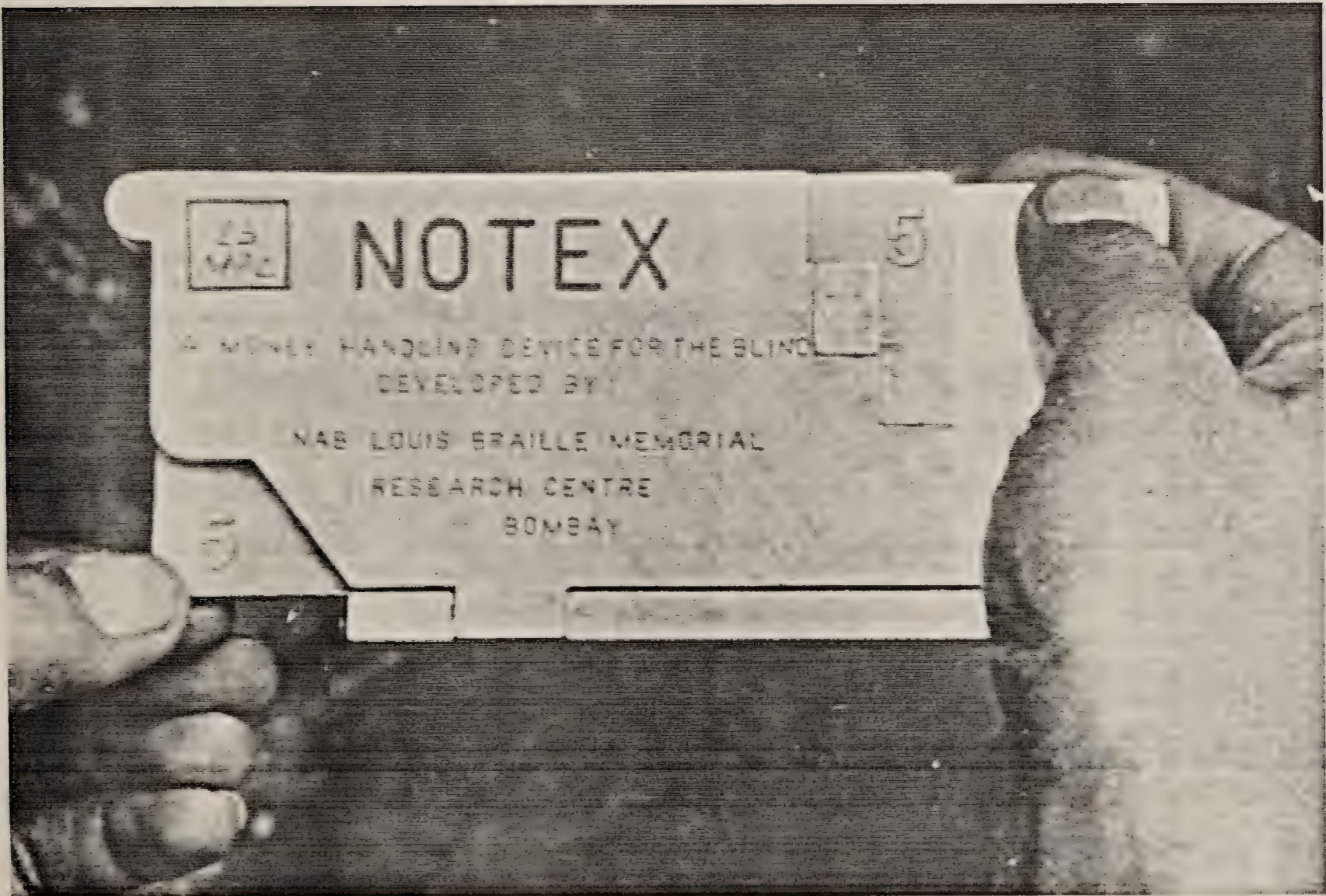
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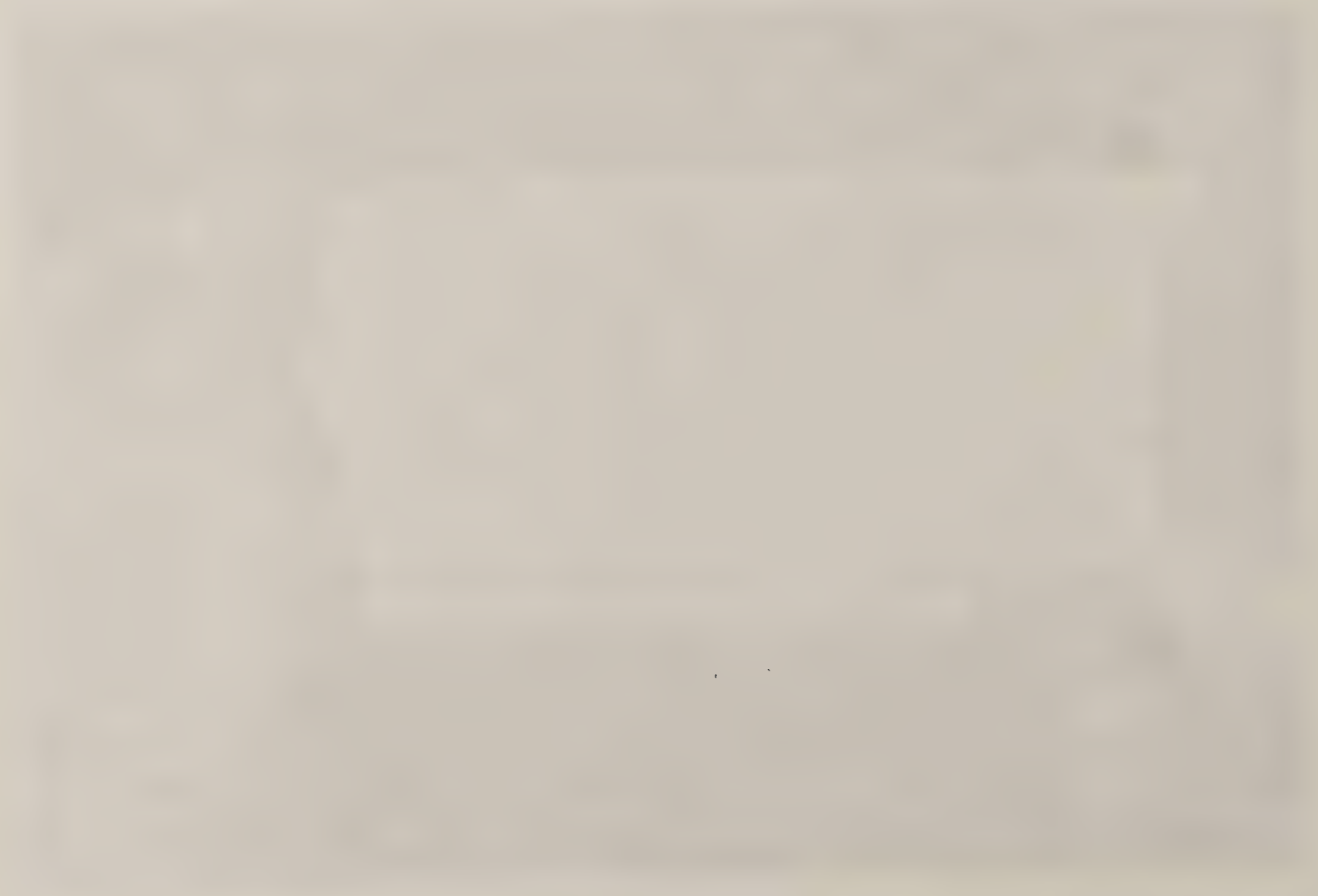
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1100 EAST 58TH STREET
CHICAGO, ILLINOIS 60637



Note Gauge (Lloyds Bank)



Notex (NAB Research Centre)



Price: 4 Rupees

NATIONAL ASSOCIATION FOR VISUALLY HANDICAPPED
305 East 24th Street, New York, New York 10010, USA. Tel:
212-889 3141.

Model: Check writing guide

Description: Black plastic template for filling in necessary information on a standard American 70 x 152 mm cheque.

Price: \$1

ROYAL NATIONAL INSTITUTE FOR THE BLIND
224 Great Portland Street, London W1N 6AA, England. Tel:
01-388 1266.

Model: Bank note gauge

Description: By placing a bank note on the step of this white plastic guide, the value can be determined by the width according to its position to the four steps cut to the width of the 1, 5, 10 and 20 bank notes. Size 95 x 38 mm.

Price: Free

Model: Coin holder

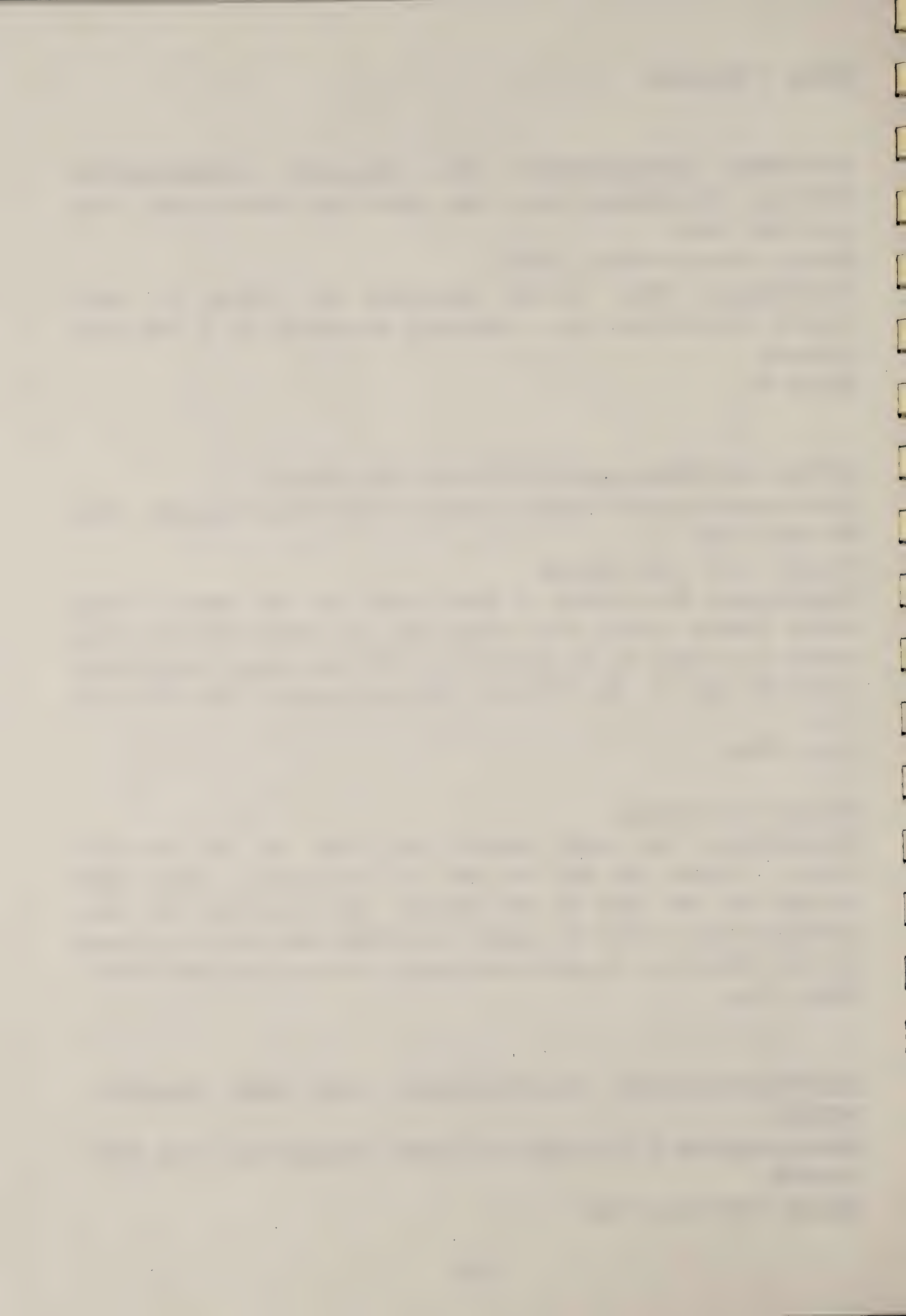
Description: The coin holder will hold up to five £1 coins. These are slid in and out through a small slot located on the side of the holder. The top face has five corresponding holes to assist in sliding the coin in or out and to allow you to see how many coins are in the holder.

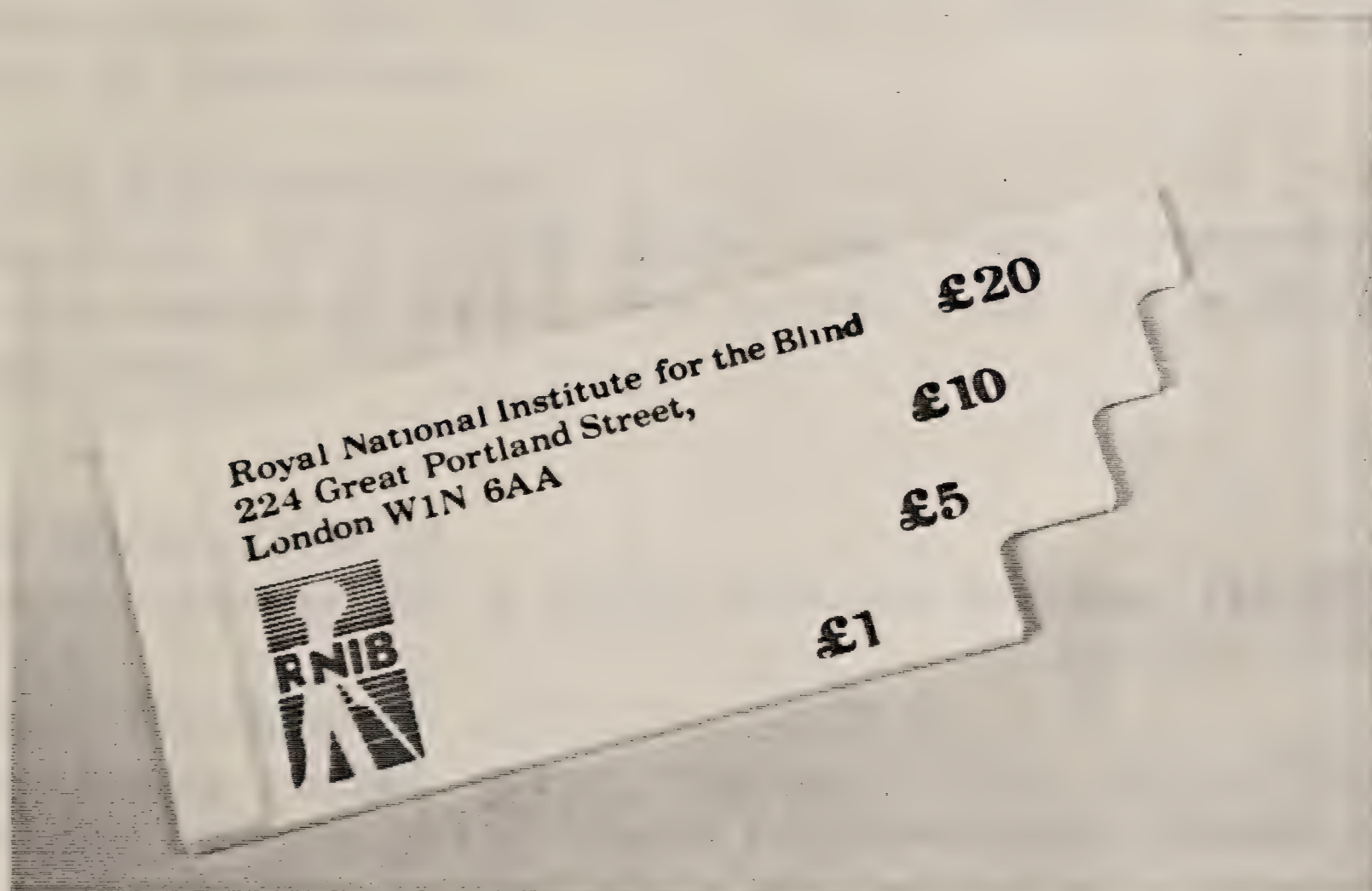
Price: Free

**SCHWEIZERISCHER ZENTRALVEREIN FÜR DAS BLINDEN-
WESEN**

Schutzengasse 4, CH-9000 St Gallen, Switzerland. Tel: 071-
233639.

Model: Coin box 13.31





Bank Note Gauge (RNIB)



Coin Holder (RNIB)

Description: Seven spring-loaded compartments for holding Swiss coins. Size 100 x 60 x 25 mm; weight 80 grams.
Price: 27 Swiss Francs

Model: Bank note gauge

Description: Black plastic gauge with steps corresponding to the lengths of Swiss bank notes. Size 180 x 70 mm.
Price: Free

SRF PRODUKTER AB

Sandsborgsvagen 50, S-122 33 Enskede, Sweden. Tel: 08-39 00 20.

Model: Monnibox

Description: Small metal device holding six different Swedish coins in spring-loaded compartments. Size 60 x 19 mm.

Price: 9 Swedish Kronor

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HANDWRITING AIDS

Many visually disabled persons require a simple aid to help them write legibly. This frequently takes the form of a template which is placed on top of the paper. The template is often matt black to give good visual contrast against white paper.

AMERICAN FOUNDATION FOR THE BLIND

15 West 16th Street, New York, New York 10011, USA. Tel: 212-620 2172.

Model: Signature guide WS-294

Description: Two rubber posts support two 114 mm lengths of metal rod, 14 mm apart. Rubber reduces slippage.

Price: \$1.25

Model: Signature guide WS-267

Description: Sturdy plastic mask with aperture to correspond with standard signature area. Credit card size, 54 x 86 mm, to fit in a wallet.

Price: \$0.50

Model: Envelope addressing guide WS-412

Description: Plastic mask with cut-out lines to correspond with standard "address to" and "address from" areas. Size 95 x 159 mm.

Price: \$1.50

AMERICAN PRINTING HOUSE FOR THE BLIND

1839 Frankfort Avenue, PO Box 6085, Louisville, Kentucky 40206-0085, USA. Tel: 502-895 2405.

Model: Signature guide

Description: Natural-colour anodised aluminium guide with rubber backing to prevent slipping. Elastic is stretched across the open frame, which measures 89 x 25 mm,

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giving a guideline for writing.

Price: \$2.63

Model: Embossed pencil-writing paper

Description: White braille paper, 267 x 222 mm, is embossed with heavy guide lines 13 mm apart. The paper is in pads of 165 sheets and enables pencil-writing by the blind.

Price: \$6

Model: Freund longhand writing kit

Description: Designed to teach longhand writing to the blind. Includes stiff 343 x 432 mm board covered with aluminium window screening and pad of 100 sheets of soft paper. Braille and print teaching manual and embossed workbook included.

Price: \$32.50

BLINDEN UND SEHSCHWACHEN VERBAND

Clara Zetkin Strasse 105, DDR 1080 Berlin, German Democratic Republic. Tel: 220 29 31.

Model: Signature guide

Description: Black template 100 mm long.

Price: 0.50 Marks

Model: Writing frame

Description: A5, 11 line, 9 mm wide slots.

Price: 0.54 Marks

BLINDES HEIMEARBEIDSSENTRAL AS

Postboks 5915, Hegdehaugen, Oslo 3, Norway. Tel: 02-46 99 30.

Model: Signature guide

Description: Rectangular hole in black template.

Price: 5.50 Norwegian Kroner

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1215 EAST 58TH STREET
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DEUTSCHE BLINDENSTUDIENANSTALT EV

Postfach 1160, Am Schlag 8, D-3550 Marburg, German Federal Republic. Tel: 06421-67053.

Model: Script slate

Description: Script slate of cardboard, with hinged paperboard template, A4 size, 20 lines.

Model: Script slate

Description: Script slate of light alloy, with hinged template, A5 size, 15 lines.

Model: Signature guide

Description: Signature guide, light alloy, 120 mm. Made in two versions – right or left side of the sheet of paper.

Model: Layout board

Description: Layout board for setting up a A4 format letter or form.

GLORIA GARRETT

3202 Dalewood Road, Oxon Hill, Maryland 20022, USA.

Model: Garrett String Writing Guide

Description: Top-hinged frame strung with black elastic strings to provide tactual lines for guiding handwriting. Holds 8.5 x 11 inch (220 x 280 mm) paper. Made of masonite. Small beads strung on elastic can be moved to mark place on line.

Price: \$5

GREENLEES HUMANICS INC

399 Asharoken Avenue, Northport, New York 11768, USA.

Model: Guide One Longhand Writing Aid

Description: Takes A4 size paper. Consists of a board with a clip to hold the paper, non-slip stops to assist in aligning the paper, and a cursor which carries two flexible

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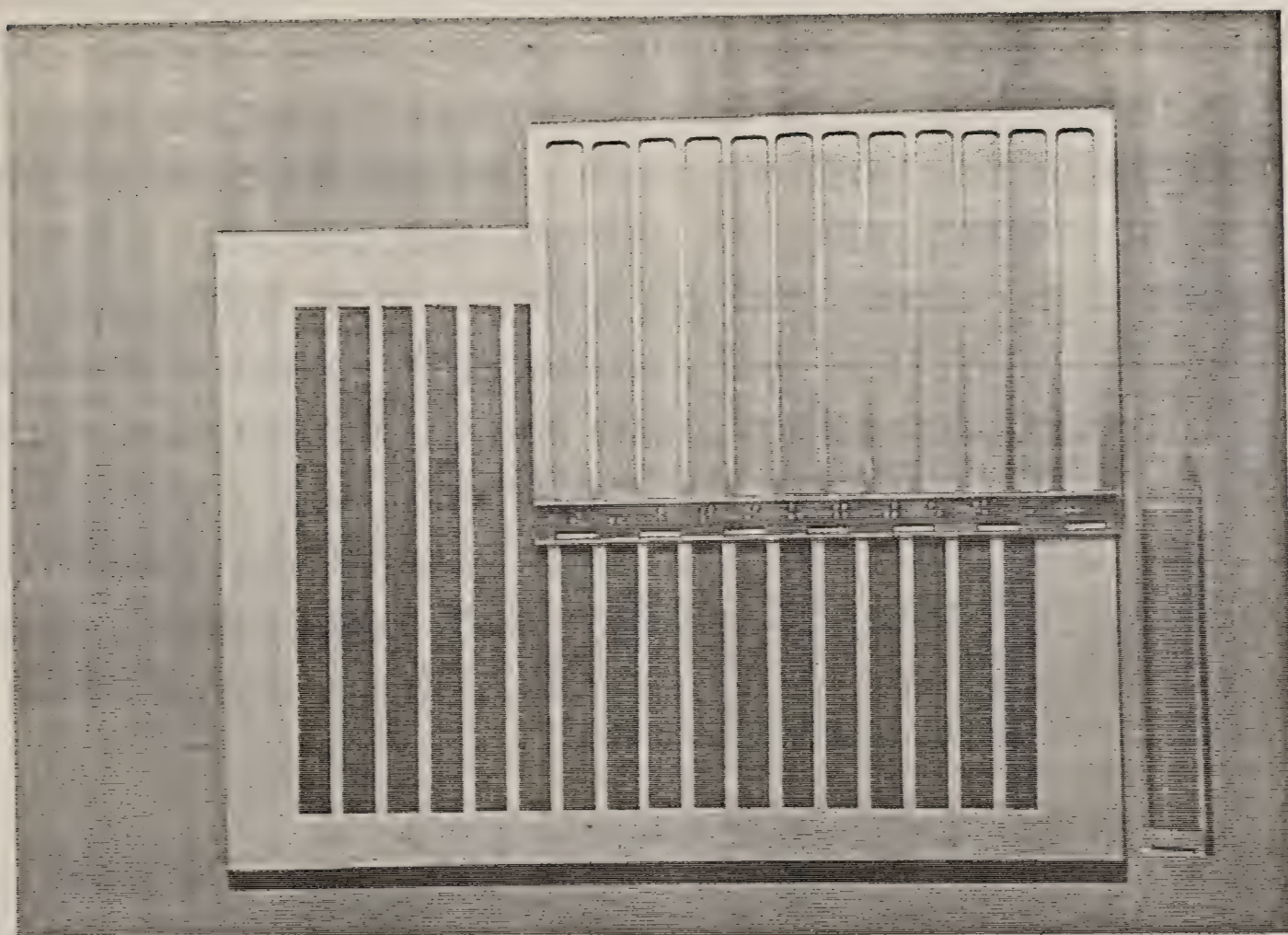
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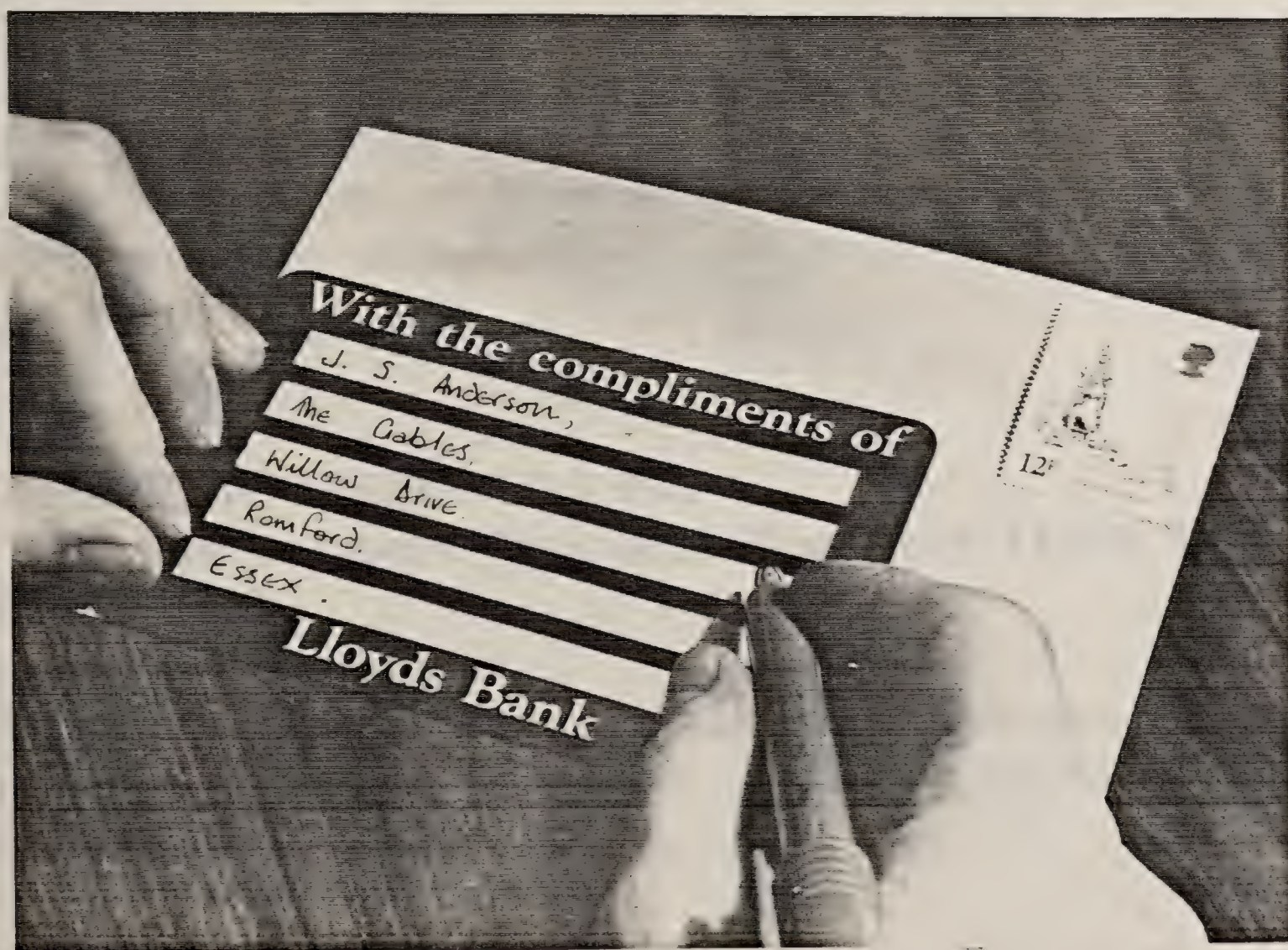
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Script Slates (Deutsche Blindenstudienanstalt)



Envelope address template (Lloyds Bank)

wires and is attached to the left-hand side of the board. The two flexible wires define the writing area, which prevents clipping the upper and lower loops of letters. The cursor runs on an indexed rod, and is moved down after each line has been completed. Also on the rod is an adjustable stop, which allows the writer to use paper or envelopes shorter than 292 mm. Fitted on the cursor is a slider which moves horizontally. This allows the writer to make margins, use paper less than 210 mm wide, make columns of figures, or to mark where you have left off writing. The aid is fitted with friction pads, so that it will not slip on smooth surfaces. Dimensions 273 x 356 x 32 mm; weight 400 grams.
Price: £23.76

HOWE PRESS OF PERKINS SCHOOL FOR THE BLIND
175 North Beacon Street, Watertown, Massachusetts 02172,
USA. Tel: 617-924 3434.

Model: Signature guide

Description: Aluminium guide 89 x 25 mm.

Price: \$1 (dom. \$0.70)

Model: Writing cards

Description: Grooved fibre writing cards 216 x 279 mm.
Suitable for pen or pencil.

Price: \$1 (dom. \$0.50)

INDEPENDENT LIVING AIDS INC

11 Commercial Court, Plainview, New York 11803, USA. Tel:
516-681 8288.

Model: Signature guide

Description: Sturdy plastic mask with aperture to correspond with standard signature area. Size 54 x 86 mm.

Price: \$0.50

Model: Deluxe signature guide

Description: Two rubber blocks support two 108 mm

THE FIRST PART OF THE HISTORY OF THE
LIFE OF THE LATE KING CHARLES THE FIRST
BY JOHN BURNET

IN TWO VOLUMES. THE SECOND VOLUME.
LONDON, Printed by J. Streater, at the
Sign of the Gun, in St. Dunstons Church-yard, 1680.

THE SECOND PART OF THE HISTORY OF THE
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LIFE OF THE LATE KING CHARLES THE FIRST
BY JOHN BURNET

lengths of metal rod, 14 mm apart. Rubber reduces slipping.

Price: \$1.25

Model: Envelope writing guide

Description: A sturdy plastic mask, 76 x 159 mm, with apertures corresponding with standard American "address to" and "address from" areas on envelope.

Price: \$1.50

Model: Letter writing guide

Description: Sturdy plastic sheet, 216 x 279 mm, with 13 apertures corresponding with standard line spacing.

Price: \$4.10

Model: Marks script guide

Description: Composed of a clip board which takes 216 x 279 mm paper. Down the left edge of the board is a notched guide along which a carriage with a clicking device carries a 19 mm slot, formed of two thin metal rods some 200 mm long. The far end of the slot is fitted into a metal block that slides on the rods to serve as a margin stop. The carriage hinges on the notched guide so that it can be raised to simplify insertion of the paper. Several sheets of paper can be installed at a time for removal as they are filled. Board will also accommodate envelopes, postcards and other paper sizes. Weight 0.68 kg.

Price: \$21.95

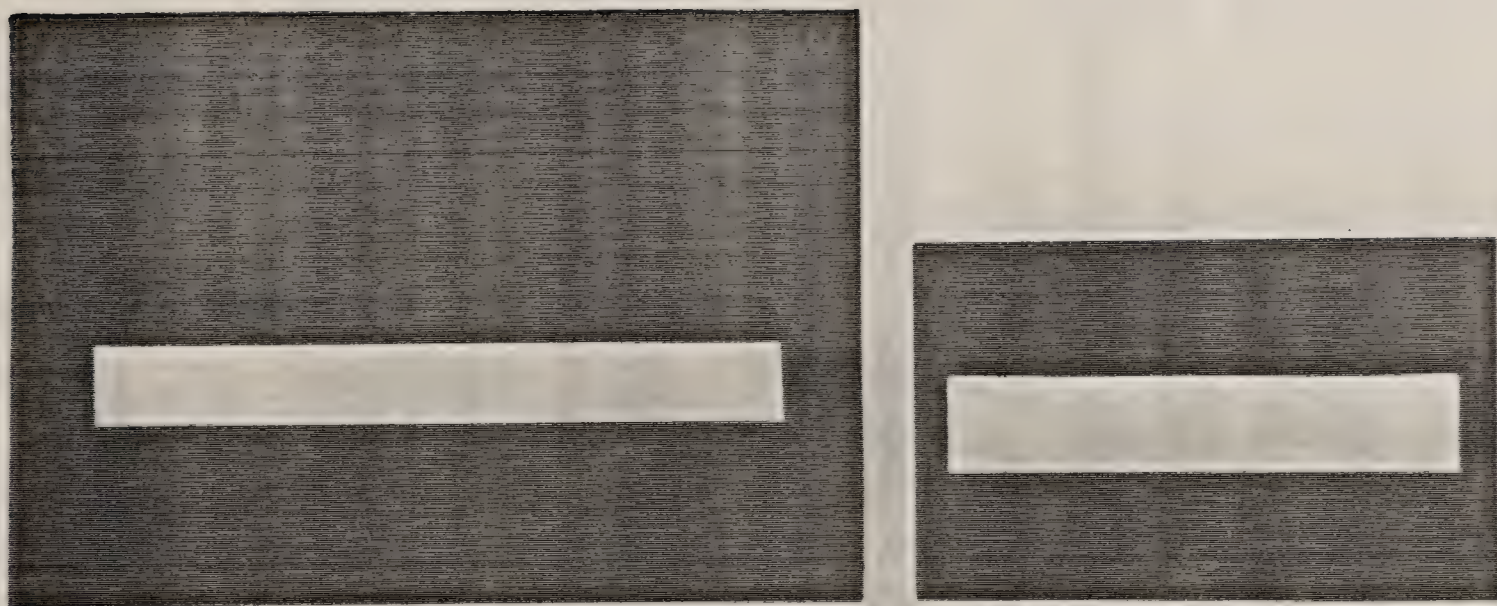
LLOYDS BANK PLC

Public Relations Department, 71 Lombard Street, London EC3, England. Tel: 01-626 1500 ext 2517.

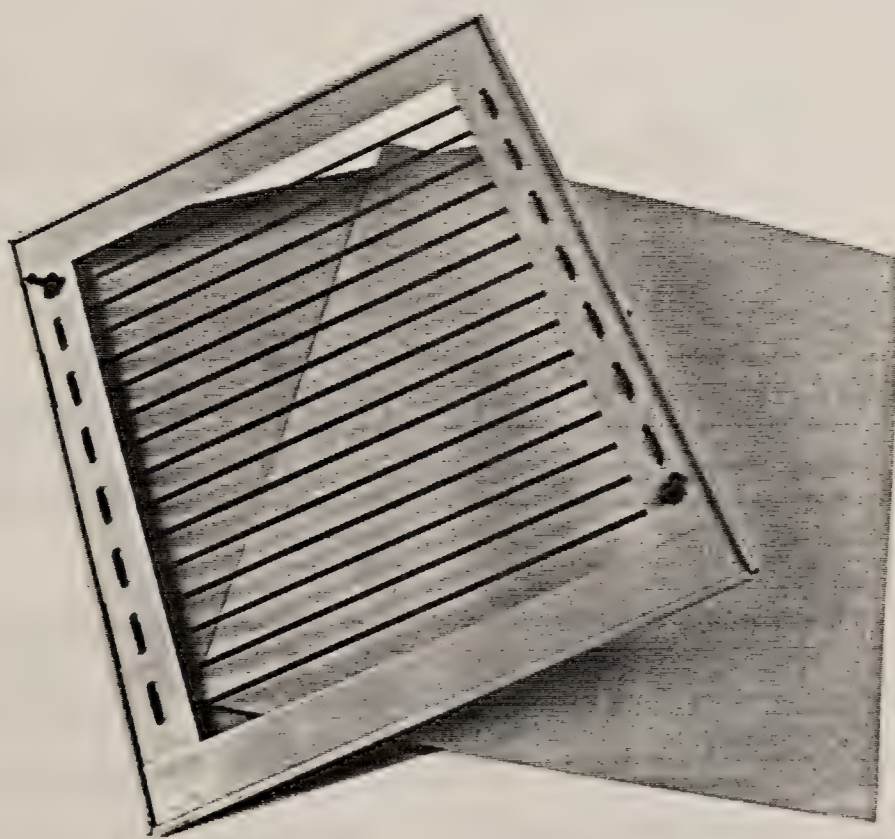
Model: Envelope address template

Description: Matt dark brown plastic template with five slots for writing addresses on envelopes. Size 120 x 80 x 1 mm.

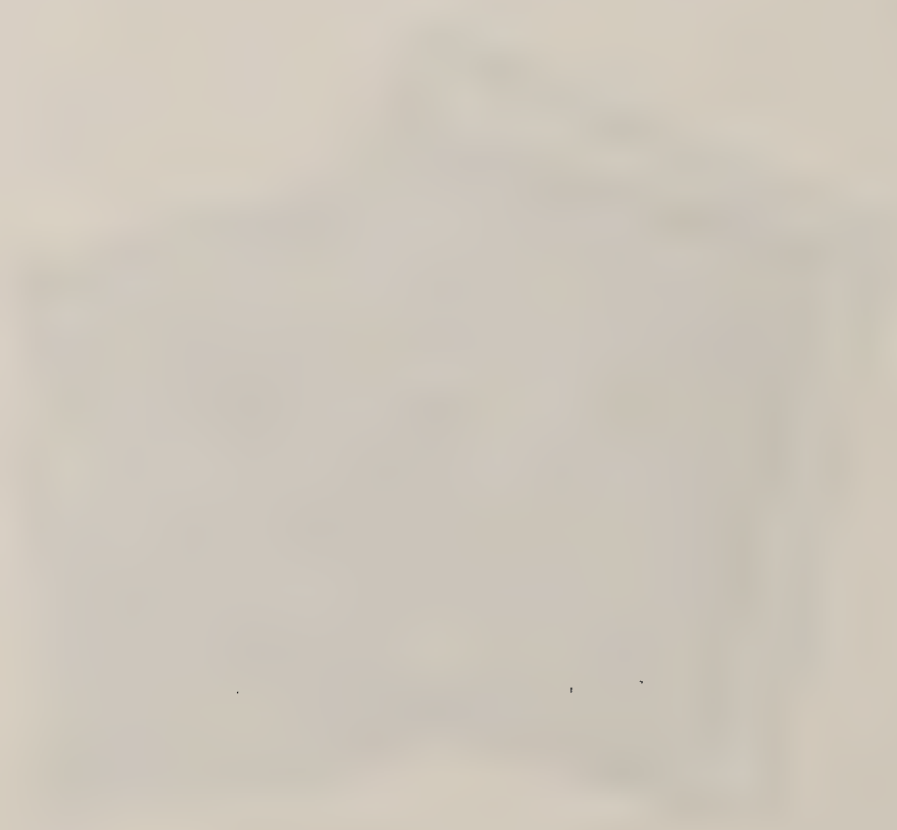
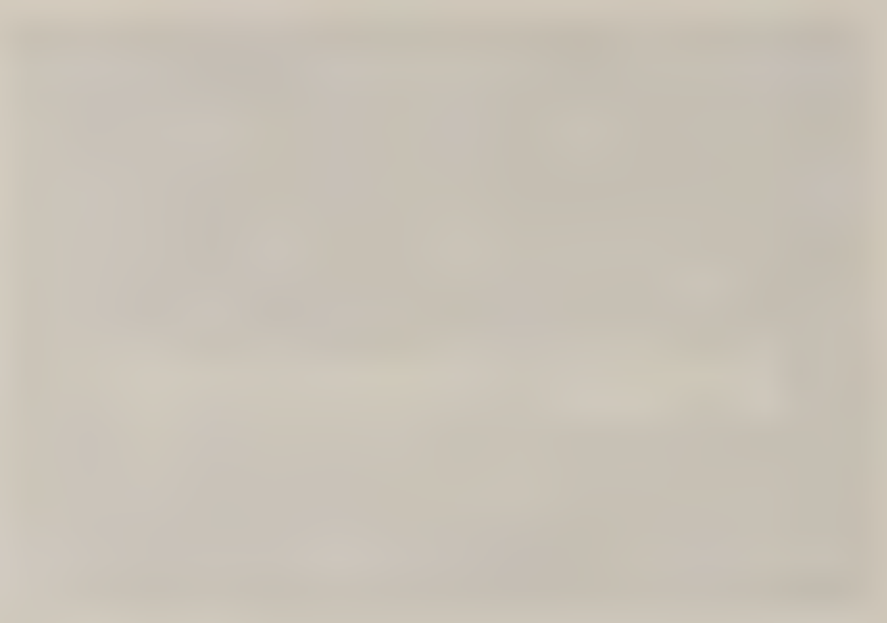
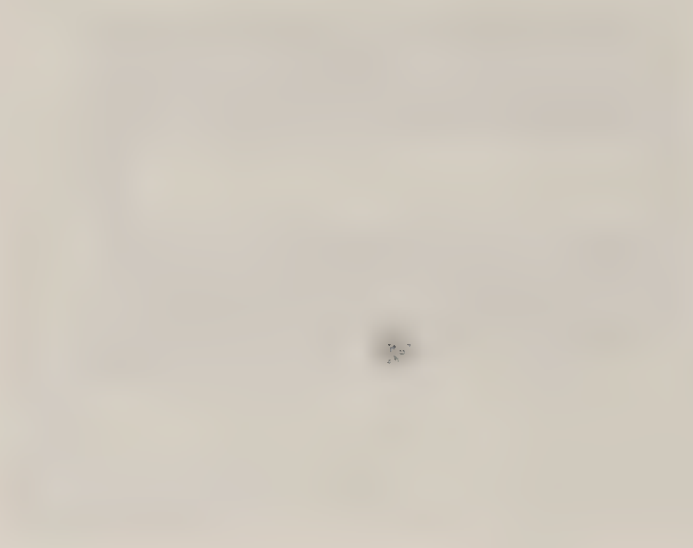
Price: Free



Typoscope and Signature Guide (NAVH)



Millard Metal Frame (RNIB)



NATIONAL ASSOCIATION FOR VISUALLY HANDICAPPED
305 East 24th Street, New York, New York 10010, USA. Tel:
212-889 3141.

Model: Signature guide

Description: Black plastic signature guide 83 x 51 mm with 16 mm opening.

Price: \$0.60

Model: Typoscope

Description: Reading and writing guide in black plastic, 127 x 89 mm, with a 102 mm wide by 13 mm deep opening.

Price: \$0.50

Model: Envelope addressing guide

Description: Black plastic mask with cut-out lines to correspond with standard "address to" and "address from" areas. Size 105 x 197 mm.

NATIONAL INSTITUTE FOR THE VISUALLY HANDICAPPED
116 Rajpur Road, Dehra Dun, Uttar Pradesh 248 001, India.
Tel: 24491.

Model: Signature guide

Description: Aluminium signature guide.

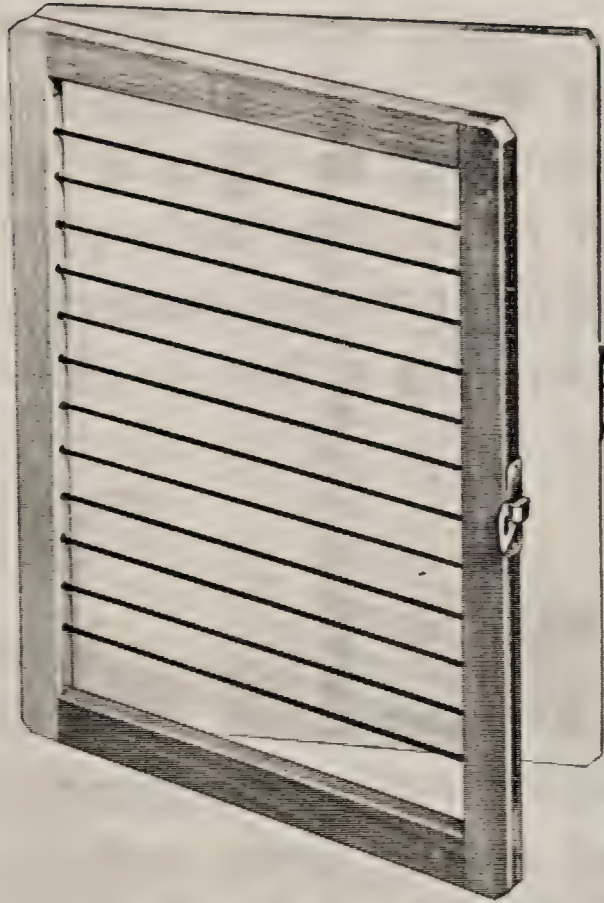
Price: 0.75 Rupees

ROYAL NATIONAL INSTITUTE FOR THE BLIND
224 Great Portland Street, London W1N 6AA, England. Tel:
01-388 1266.

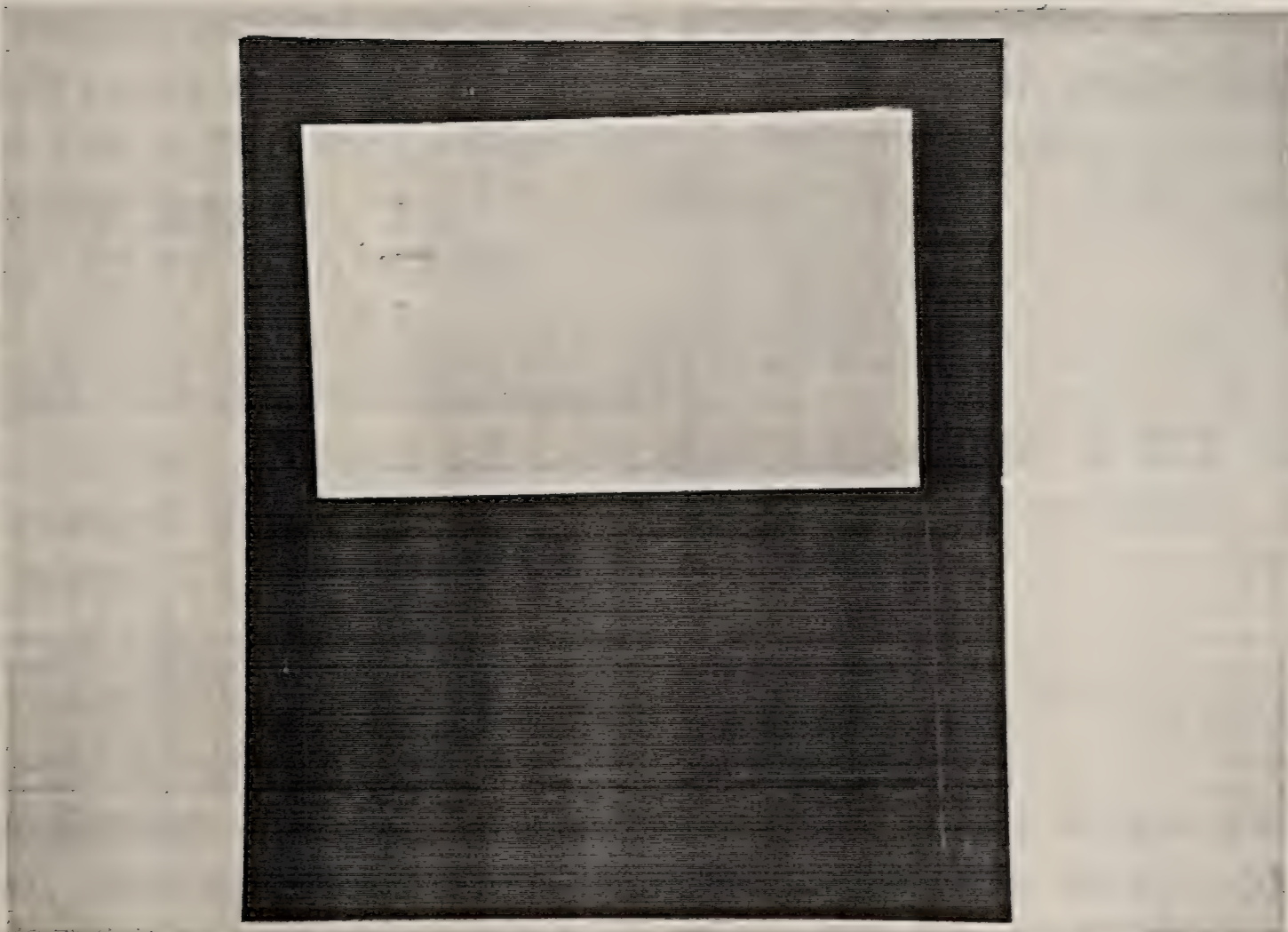
Model: Correspondence tablets

Description: When placed under a sheet of ordinary notepaper the larger embossed plastic tablet serves as a guide for writing longhand. The smaller tablet is inserted in the envelope when writing the address. Size large 254 x 203 mm; small 114 x 89 mm.

Price: £1.17 (con. free)



Portland Frame (RNIB)



Venetian Writing Frame (RNIB)

Model: Millard metal frame

Description: A japanned metal frame to assist in writing longhand. The paper is placed under the top portion and is held in position by a clip at the right-hand side. The strands of elastic serve as guides to the pen or pencil and allow sufficient movement for the formation of upward and downward strokes. Size 248 x 203 mm; weight 0.3 kg. 15 lines per page.

Price: £2.92 (con. £0.97)

Model: Portland frame

Description: Of similar principle to the Millard frame but of wooden construction. The paper is held in position by two small pins on the base of the frame. Size 248 x 197 mm; weight 0.5 kg. 12 lines per page.

Price: £8.95 (con. £2.98)

Model: Venetian writing frame

Description: A simple device, made of cloth covered strawboard, for assisting in writing longhand. Each line of writing is guided by turning down a section of the sheath which rests on the notepaper. For use with paper not larger than 254 x 203 mm. Size 267 x 305 mm; weight 0.25 kg. 16 lines per page.

Price: £2.25 (con. £0.75)

Model: Raised line notepaper

Description: Sheets of cartridge paper 254 x 203 mm with embossed guide lines. In packets of 50 sheets. 12 lines per page.

Price: £1.50 (con. £0.50)

Model: Script writing aid

Description: Rubber sheet intended to be used as a base when writing longhand. Placed under the sheet of writing paper, it is possible to feel the slight impression made by the pencil or ballpoint pen, thus enabling the blind person

to detect the position of the last word written. Suitable for use in conjunction with the Portland or Millard writing frames. Size 229 x 178 mm.

Price: £0.50 (dom. free)

Model: Envelope guide

Description: A small plastic guide with five lines cut out to assist in addressing envelopes. The guide is held firmly on the envelope and the address is written through the wide cut-out windows. Size 120 x 80 x 1 mm.

Price: £1 (dom. free)

NATIONAL REHABILITATION ENGINEERING INSTITUTE

Dr Vikram Sarabhai Road, Near Institute of Management, Vastrapur, Ahmedabad 380 015, India. Tel: 442070.

Model: Signature guide

Description: A template for guiding a blind person in placing their signature in the correct place.

Price: 3 Rupees

SCHWEIZERISCHER ZENTRALVEREIN FÜR DAS BLINDEN-WESEN

Schutzengasse 4, CH-9000 St Gallen, Switzerland. Tel: 071-233639.

Model: Script writing aid 3.88

Description: One line template on an arm which can move down the page. Size 330 x 230 mm, weight 320 grams.

Price: 46 Swiss Francs

Model: Magnetic writing frame 3.89

Description: For A4 paper. Size 310 x 230 mm, weight 300 grams.

Price: 14.20 Swiss Francs

Model: Writing frame 3.90

Description: Frame with 13 slots for handwriting on A4

paper. Size 330 x 210 mm, weight 160 grams.

Price: 6.40 Swiss Francs

Model: Raised line paper 3.92 & 3.93

Description: Raised line paper available in A4 and A5 sizes.

Price: 1.50 Swiss Francs

Model: Address template 3.95

Description: Three line template. Size 150 x 70 mm.

Price: 5.40 Swiss Francs

SRF PRODUKTER AB

Sandsborgsvagen 50, S-122 33 Enskede, Sweden. Tel: 08-39 00 20.

Model: Address template

Description: Three line template with elastic separating the lines.

Price: 8 Swedish Kronor

Model: Signature guide

Description: Black template with a rectangular hole.

Price: 2.70 Swedish Kronor

Model: Writing frame

Description: Frame with elastic dividers giving 22 lines on an A4 page.

Price: 84 Swedish Kronor

**VEREIN ZUR FORDERUNG DER BLINDENBILDUNG EV
Bleekstrasse 26, D-3000 Hanover 71, German Federal Republic.
Tel: 0511-523021.**

Model: Signature guide

Description: Hinged metal signature guide. Size 120 x 30 mm, weight 10 grams.

THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

1955-1956

PHYSICS 101

LECTURE NOTES

BY

ROBERT A. FAY

CHICAGO, ILL.

TYPING AIDS

Although the typewriter is in many ways an ideal aid for a blind person, there are a number of aspects which can be assisted by simple adaptations.

Closed circuit television reading aids can be used with moving carriage typewriters, and there are some special adaptations for moving head typewriters (see sections on Electronic Reading Aids and Magnification of Visual Display Units). Reading stands are useful for those with residual vision (see section on Reading Stands).

BENNETT TYPEWRITER COMPANY

27 Lewisham Way, New Cross, London SE14, England. Tel: 01-692 4941.

Model: Brother 5513 electric typewriter

Description: A large print typewriter fitted with Bulletin type which gives six letters to the inch. Also a keyboard shield which ensures that individual keys are depressed, so that each key can be selected without touching the adjacent one.

Price: £315; £29 for keyboard shield

BRITISH OLIVETTI LTD

Government Branch , 17-29 Sun Street, London EC2M 2PU, England. Tel: 01-377 8644.

Model: Olivetti Linea 98

Description: Manual typewriter fitted with jumbo typeface giving eight letters to the inch and an extra long carriage (392 mm).

Price: £172

IBM (UK) LTD

46/47 Wigmore Street, London W7H OAB, England. Tel: 01-935 6600.

Model: Selectric III Golfball

Description: Typewriter, no moving carriage, changeable typehead, largest Orator 10 pitch 14 point.

Price: £499

**NATIONAL INSTITUTE FOR REHABILITATION ENGINEERING
238 Poplar Avenue, Pompton Lakes, New Jersey 07442, USA.**

Model: LT63M Electric Typewriter

Description: Horizontal paper output with push button error correction. Operates with any vertical type of closed-circuit TV system so that the camera can remain vertical and does not need to be adjusted or tilted to read paper in the typewriter carriage. Easy to see and correct errors and model has electric carriage return. Carrying case included.

Model: Portable Electric Typewriter

Description: It has illuminated optical magnifiers (folding or detachable) and push-button error correction.

OEM (REPROGRAPHIC) LTD

**133/49 St. Nicholas Circle, Leicester LE1 4LE, England.
Tel: 0533-50481.**

Model: Mini-Jumbo Easy Typer

Description: Manual portable typewriter, which produces very clear letters and numerals – ten letters to the inch.

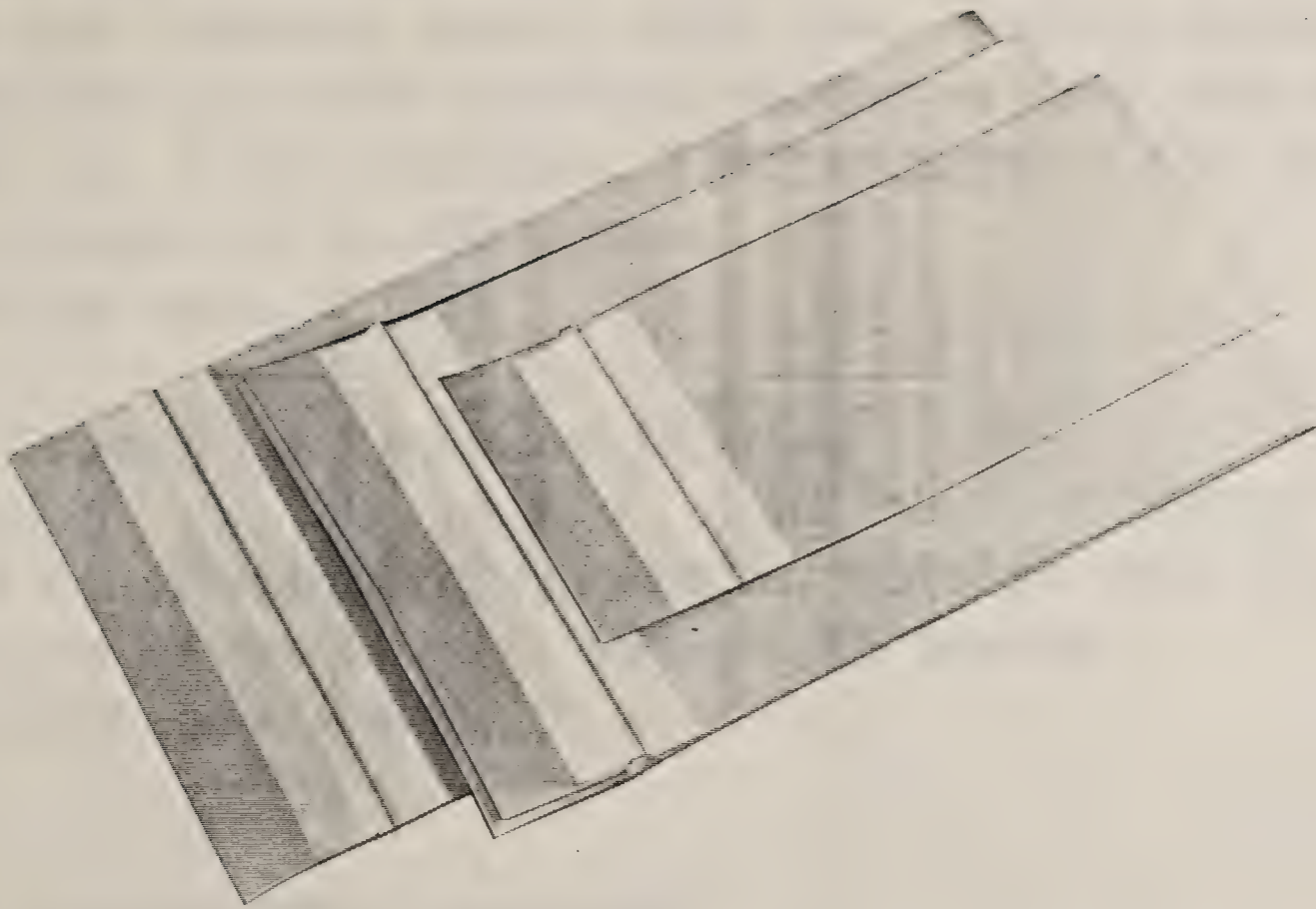
Price: £107.25

ROYAL NATIONAL INSTITUTE FOR THE BLIND

**224 Great Portland Street, London W1N 6AA, England. Tel:
01-388 1266.**

Model: Paper Brake Backing Sheets

Description: Each manilla backing sheet has a ridge



Paper Brake Backing Sheets (RNIB)

across one end which prevents the paper being turned up after the last line has been typed. The paper is placed on top of the backing sheet, with the leading edges level. Supplied for use with standard machines only, and come in sets of six: 1 for foolscap, 2 for quarto, 1 for octavo, 2 for A4. Weight of set 85 grams.

Price: £1.85 (con. £1.23)

Model: Typewriter Keyboard Chart

Description: A flat plastic chart with indented layout of keys on a standard typewriter, notated with the braille equivalents of the letters. Weight 56 grams.

Price: £0.89 (con. free)

ROYAL TYPEWRITER COMPANY

150 New Park Avenue, Hartford, Connecticut 06106, USA.

Model: Manual Typewriter

Description: Royal typewriters equipped with Bulletin Type No. 102; 6 characters per inch; 3.5 lines per vertical inch.

SRF PRODUKTER AB

Sandsborgsvagen 50, S-122 33 Enskede, Sweden. Tel: 08-39 00 20.

Model: End-of-Page Indicator

Description: The indicator advises when it is time to change the paper and also acts as a paper support. It consists of a light-sensitive sensor attached to the typewriter which in turn is attached to a vibrator, which is small enough to be carried in a pocket or fastened around the wrist: or another option of an acoustic signal. This aid can be adjusted to suit different sizes of paper and although this model is designed for the Facit 1620, a fitting angle can be provided to adapt it to other typewriters. Powered by a 6 volt battery eliminator. Size 70 x 60 x 20 mm; weight 70 grams.

Price: 1025 Swedish Kronor (with vibrator); 625 Swedish Kronor (with acoustic signal)

Model: Marginal Warner

Description: This device may be fitted to a standard or braille modified typewriter, and consists of a wrist worn vibrator, a battery unit and a microswitch fitted to the typewriter. The microswitch activates the battery unit when the end of a line of typing is reached. A tactile signal can be felt through the vibrator fastened around the wrist. Battery unit is 70 x 40 x 60 mm and has 2 x 1.5 volt batteries, and the vibrator weighs 20 grams. The microswitch and fitting instructions are supplied with each aid.

Price: 425 Swedish Kronor

READING STANDS

Many partially sighted people need to be very close to the material they are reading. Reading stands can greatly improve comfort by presenting the material at an appropriate height and angle. This section does not include overbed tables which can be tilted for reading.

AMERICAN FOUNDATION FOR THE BLIND

15 West 16th Street, New York, New York 10011, USA. Tel: 212-620 2172.

Model: Nielson Low Vision Book Holder LPS7500

Description: Sturdy reading stand which can be leant against for writing, pivots to left or right, folds flat for storage.

Price: \$35

Model: MC327

Description: Permits one to read in a supine position and frees hands. Elastic vertical and horizontal straps hold material to aluminium adjustable support frame. Knob adjusts for height and inclination. Size 200 x 300 x 6 mm. Folds for easy storage.

Price: \$25.50

AMERICAN PRINTING HOUSE FOR THE BLIND

1839 Frankfort Avenue, PO Box 6085, Louisville, Kentucky 40206-0085, USA. Tel: 502-895 2605.

Model: Desk top reading stand

Description: Desk-top reading stand (450 x 600 mm). Can be positioned to 65, 55, 45, 35 & 25 degrees; page clamps.

Price: \$63.18

Model: Gore reading stand

Description: Four jointed arm and a C-clamp fasten the



Desk-top reading stand (American Printing House)



Gore reading stand (American Printing House)



Shafer reading stand (American Printing House)



Music rack (American Printing House)

device to a desk or table top. Book rack measures 410 x 270 mm, and is nickel-plated.

Price: \$66.34

Model: Shafer reading stand

Description: Consists of base and shaft, jointed arm and bookrack. Base has three legs each extending 330 mm from the shaft. Vertical steel shaft is 1.12 m tall. Jointed arm may be extended to 690 mm long and has two pivots. Bookrack measures 410 x 300 mm.

Price: \$106.88

Model: Music rack

Description: Wooden music rack designed to fit any upright piano, constructed so that it is adjustable forward and backward, up and down, and for tilting to the proper angle.

Price: \$86.87

CLASSWOOD LTD

Cobham Road, Pershore, Worcestershire WR10 2DE, England.

Tel: 0386-554444.

Description: Small wooden bookrest which can be folded when not in use. Needs a flat surface to stand on.

Price: £2.40

DANANGLIA SYSTEMS LTD

Unit 7, Cuckoo Oak, Halesfield 18, Telford, Salop, England.

Tel: 0952-582617.

Model: Unireader

Description: Book holder made from transparent acrylic with metal stand, height and angle adjustable. Stand can be used in a sitting, standing or lying position. Weight 6.4 kg.

Price: £37.69

DATA PRESENTATION CO

49/51 Brewhouse Hill, Wheathampstead, Hertfordshire AL4 8AN, England. Tel: 058283-2471.

Model: Dataliner 101

Description: Desk-standing tiltable copyholders for A4 & A3 size documents, available with magnifying cursor.

Price: £22.50 for A4 size; £8 for magnifying cursor for A4; £27.50 for A3 size; £9.50 for magnifying cursor for A3

Model: Dataliner 103

Description: Suspension copyholder suitable for lightweight leaflets and documents. Available with magnifying cursor.

Price: £36 for A4 size; £8 for A4 size magnifying cursor; £42 for A3 size; £9.50 for magnifying cursor for A3

Model: Electric Dataliner 400

Description: Desk-top copyholder with built-in illumination and pneumatic footswitch controlling the cursor.

Price: £135 for A4 size; £150 for A3 size

DUFFIELD MEDICAL EQUIPMENT LTD

Goods Road, Belper, Derbyshire DE5 1UU, England. Tel: 077382-6993.

Model: Craig Davis reading aid AID-16

Description: Combines overhead reading/writing aid and mirror for the supine patient. Screw fixing to tubular frame bed; wall brackets extra.

Price: £159

Model: Duffield Floor-Mounted Reading Aid AID-18

Description: Similar to Craig Davis with improved book holding methods. Can be moved from bed to bed.

Price: £96

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HAND LOOM CENTRE

38 Dalewood Road, Petts Wood, Kent, England. Tel: 0689-22908.

Model: Wingfield

Description: Bed frame and desk clips onto head of bed and adjusts in height and angle.

Price: Large frame £59; large desk (400 x 500 mm) £30; small frame £51; small desk (300 x 450 mm) £27.05

M HOHNER LTD

39-45 Coldharbour Lane, London SE5 9NR, England. Tel: 01-733 4411.

Model: 124/1

Description: Small table book rest in metal and plastic.

Price: £1.95

INDEPENDENT LIVING AIDS INC

11 Commercial Court, Plainview, New York 11803, USA. Tel: 516-681 8288.

Model: 044999

Description: Versatile bookstand which adjusts up and down, side to side, tilts to various angles. Permits reading in a supine position. Hardwood top (450 x 300 mm) with a lip. Elastic vertical and horizontal straps hold reading material securely. Sturdy aluminium adjustable support frame. Plastic knob for adjusting height and inclination. Folds to compact 75 mm width for storage. Weight 2 kg.

Price: \$24.50

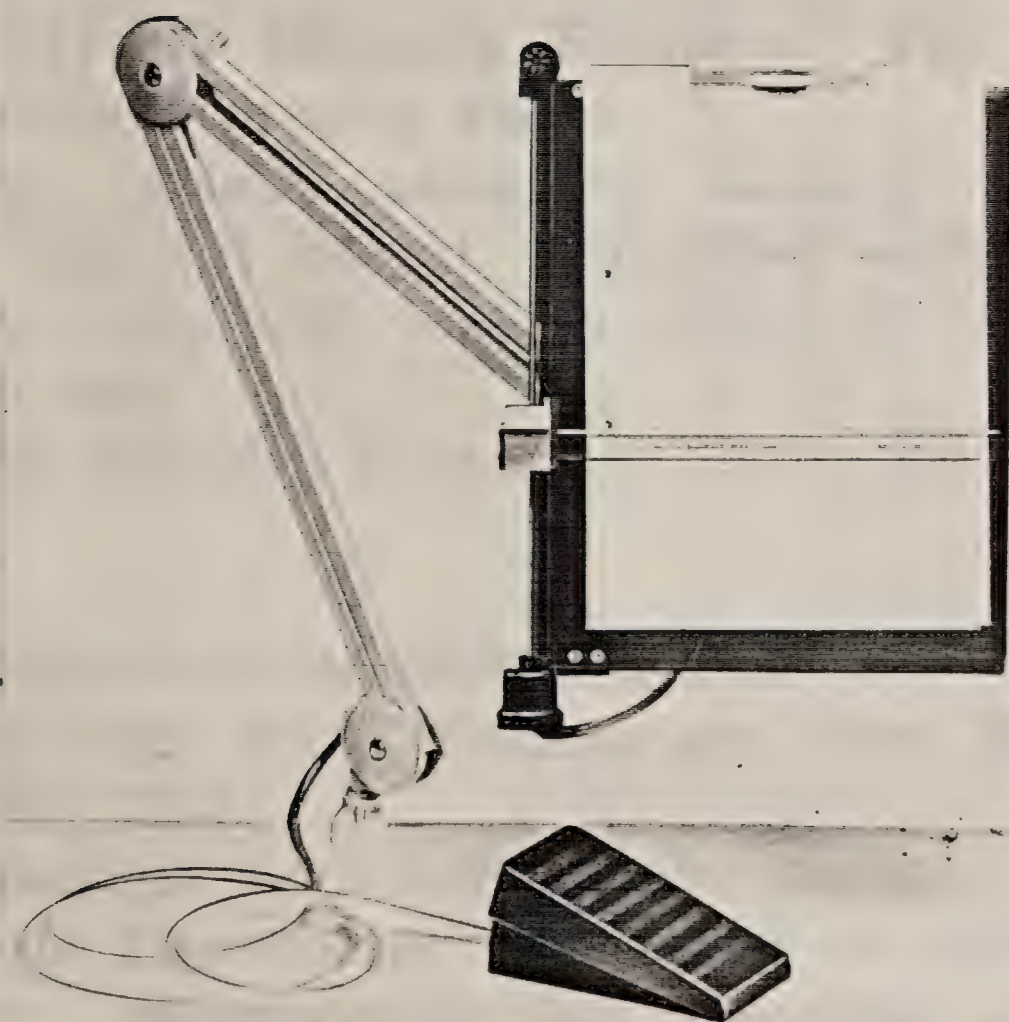
JONCARE (MEADJESS LTD)

Radley Road Industrial Estate, Abingdon, Oxfordshire OX14 3RY, England. Tel: 0235-28120.

Description: Folding table bookrest with suction feet and perspex page clips. Size 375 x 300 mm.



Bookrest (Joncare)



Luxo Superholder 601 (Malt Keyboard)

Price: £18.70

LLEWELLYN & CO LTD

Carlton Works, Carlton Street, Liverpool L3 7ED, England.

Tel: 051-236 5311.

Model: Able Table 6F/322/1

Description: Aluminium pantograph frame supports a table top which is adjustable to any angle. 300 x 460 mm wide top with one lipped edge to hold books and magazines, with three elastic straps to hold pages open. Folds flat. Weight 1.6 kg.

Price: £25.82

Model: Bookrest 6L/02/1

Description: Suction pads hold the folding bookrest on any smooth surface. Angle can be altered.

Price: £26

LUNA AB

Fack, S-441 80 Alingsas, Sweden. Tel: 46-322 730 00.

Model: Portable reading stand

Description: Sturdy table-top reading stand, adjustable in angle but not height. Supplied with clamp to fix to table. Available with reading tables of 320 x 305 mm and 500 x 305 mm.

Price: 1050 Swedish Kronor

MAILING AND MECHANISATION LTD

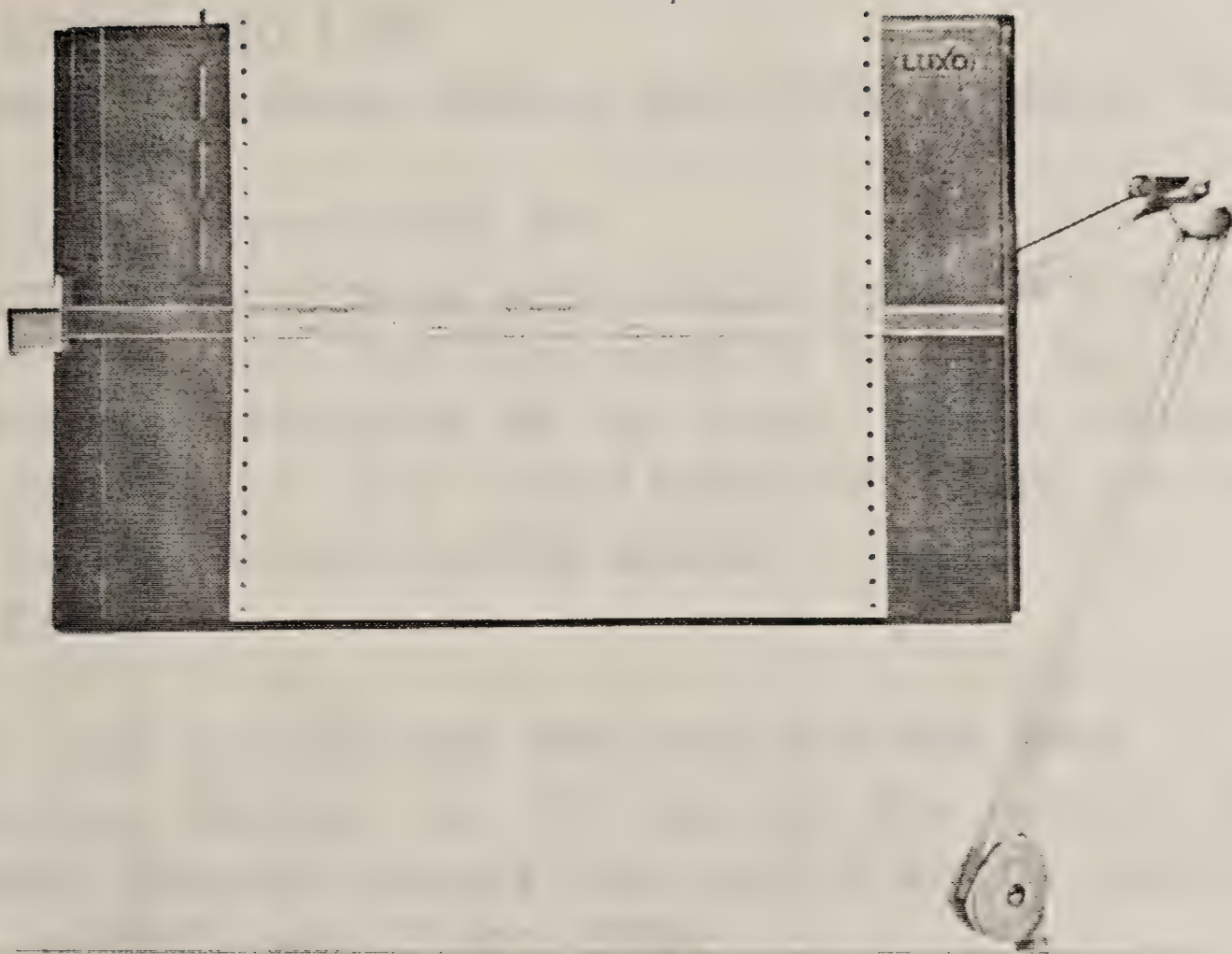
83 Copers Cope Road, Beckenham, Kent BR3 1NR, England.

Tel: 01-658 2233.

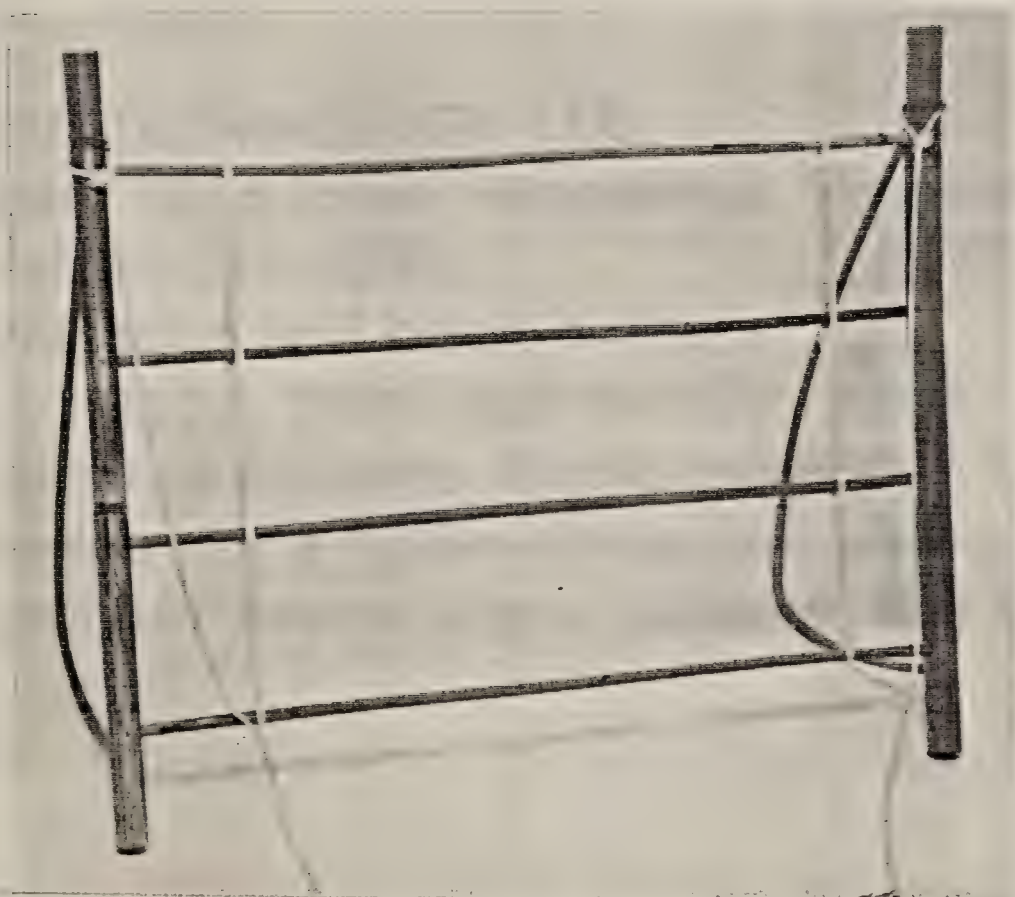
Model: Visodesk Copyholder

Description: Copyholder which can be positioned above a typewriter. Incorporates bar magnifier and foot control.

Price: £105 - £155; price according to model - either drop line bar or continuous action.



Luxo Superholder 606 (Malt Keyboard)



Newspaper holder (Moorhouse Technology)

MALT KEYBOARD LTD

262 Woodstock Road, Oxford OX2 7NW, England. Tel: 0865-50043.

Model: Luxo Superholder 601

Description: Copyholder with clamp base on arm (850 mm) with A4 plate size and load capacity of 0.45 kg. Magnifying line finder is available as an extra. Also available with other stands such as a round base for resting on table tops and a floor-mounted trolley stand.

Price: £24

Model: Luxo Superholder 605 (A4) and 606 (A3)

Description: Similar to 601 except for longer arm (900 mm) with internal springs and control knob. Load capacity to 1.4 kg (605) and 1.1 kg (606).

Price: £35 for 605; £47.50 for 606

Model: Superholder 607 (A4) and 608 (A3)

Description: Heavy-based free-standing copyholder with 150 mm arm, weight 1.6 kg (607) and 1.9 kg (608).

Price: £19.50 for 607; £32.50 for 608

MOORHOUSE TECHNOLOGY LTD

30 New Road, Moortown, Ringwood, Hampshire BH24 3AU, England. Tel: 04254-2983.

Model: Newspaper and book holders

Description: Made from lightweight cane. To suit one arm, weak arms or no arms. Book holder can be placed at two different angles on a table or on lap using the neck cord. Elastic loops hold pages down. Overall size 508 x 432 x 204 mm.

Price: £7.80

THE UNIVERSITY OF CHICAGO PRESS

CHICAGO, ILLINOIS

1955

THE UNIVERSITY OF CHICAGO PRESS

CHICAGO, ILLINOIS

1955

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CHICAGO, ILLINOIS

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CHICAGO, ILLINOIS

1955

THE UNIVERSITY OF CHICAGO PRESS

CHICAGO, ILLINOIS

1955

NATIONAL ASSOCIATION FOR VISUALLY HANDICAPPED
305 East 24th Street, New York, New York 10010, USA. Tel:
212-889 3141.

Model: Book stand

Description: Folding metal book stand designed to hold
large books.

Price: \$4

NEW CONCEPT

14 St George's Street, Winchester, Hants, England. Tel:
0962-65996.

Model: Universal Bookrest

Description: Sturdy adjustable all-metal bookrest with
variable angle settings. Felt non-scratch base and
adjustable page holder. Folds flat for storage.

Price: £2.95

NEW HORIZON WOODCRAFTS

c/o West Denton First School, Hillhead Road, Newcastle upon
Tyne NE5 1DN, England. Tel: 644711.

Model: Visual Handicap Workboard

Description: Desk-top reading stand which can be
adjusted to various angles. Dimensions of work surface 476
x 400 mm; overall dimensions when closed 527 x 400 x 38 mm;
weight 4 kg.

Price: £21.75

NOTTINGHAM MEDICAL AIDS LTD

17 Ludlow Hill Road, Melton Road, West Bridgford, Nottingham
NG2 6HD, England. Tel: 0602-234251.

Model: Readeasy

Description: Lightweight aluminium adjustable folding
bookrest (450 x 400 mm) supports books and magazines.
Weight 1.5 kg.

Price: £13.50

Model: Newspaper reader

Description: Clips to the side of a table, and unfolds like a fan. Made from laminated beech.

Price: £27.25

PARABOOK LEISURE SERVICES

Robin Top, Mill Street, Great Harwood, Lancashire, England.

Tel: 0254-886220.

Description: Metal stand which folds flat; holds books up to 30 cm and magazines.

Price: £5.00

PERFORAG (SALES) LTD

Greaves Way, Leighton Buzzard, Bedfordshire LU7 8UD, England. Tel: 0525-376743.

Model: Clinch

Description: Copy holder which fits over a visual display unit using adjustable rubber buffers (for terminals between 310 and 550 mm across). The copy holder is held adjacent to the screen either to the left or right on an A4 size reading plate with magnetised cursor.

Price: £96.77

Model: Flexo-Desk ML

Description: A4 reading stand mounted on a flexible arm with automatic 'click-in-position' joint and built-in vibration damper, extends 0 - 500 mm. Cursor with position indicator. Universal holder and table clamp (700 mm max opening).

Price: £65.63

Model: Flexo-Desk MLST

Description: Free standing (on table or desk) A4 reading table. Cursor with position indicator.

Price: £26.32

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF THE HISTORY OF ARTS
AND ARCHITECTURE
1100 EAST 58TH STREET
CHICAGO, ILLINOIS 60637

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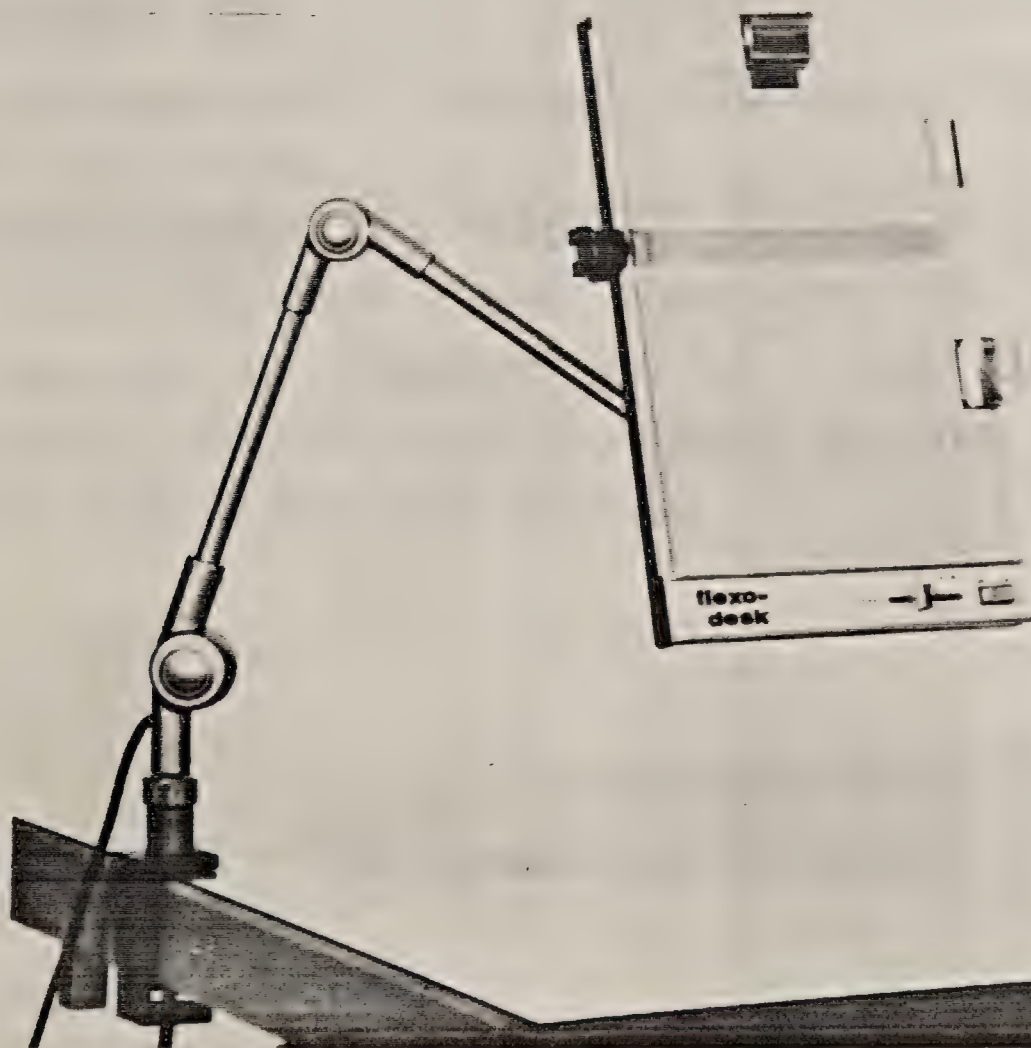
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Clinch (Perforag)



Flexo-Desk ML (Perforag)



PIRA LTD

10 Hoxton Square, London N1 6NU, England. Tel: 01-739 7865.

Model: Art. 516

Description: Bed tray with reading rest, made in plastic with metal foldaway supports.

Price: £14.50 in white or brown; £16.95 in woodgrain

R.A.T. MANUFACTURING

17/18 Great Sutton Street, London EC1, England. Tel: 01-251 2437.

Description: Music stand which can be used to hold a book, and adjusts in height and angle. Incorporates one or two 40 watt lamps to illuminate reading matter. Weight 7.5 kg.

Price: £49.99 for stand only; £88.02 with single lamp, £108.19 with double lamp

REPLOGLE GLOBES INC

1901 North Narragansett Avenue, Chicago, Illinois 60639, USA. Tel: 312-622 5500.

Model: Easy-Read Stand No. 01020

Description: Over-the-lap desk that tilts to any angle; operates by means of friction joints. Can be raised to height of 425 mm for use as a portable lectern. Table area 300 x 500 mm. Folds flat for storing.

Price: \$24.95

ROPOX APS

Ringstedgade 221, DK-4700 Naestved, Denmark. Tel: 03-72 44 43.

Model: Reading Stand 54.00

Description: Tabletop stand with a reading area of 600 x 600 mm, tiltable up to 85 degrees. The reading table is

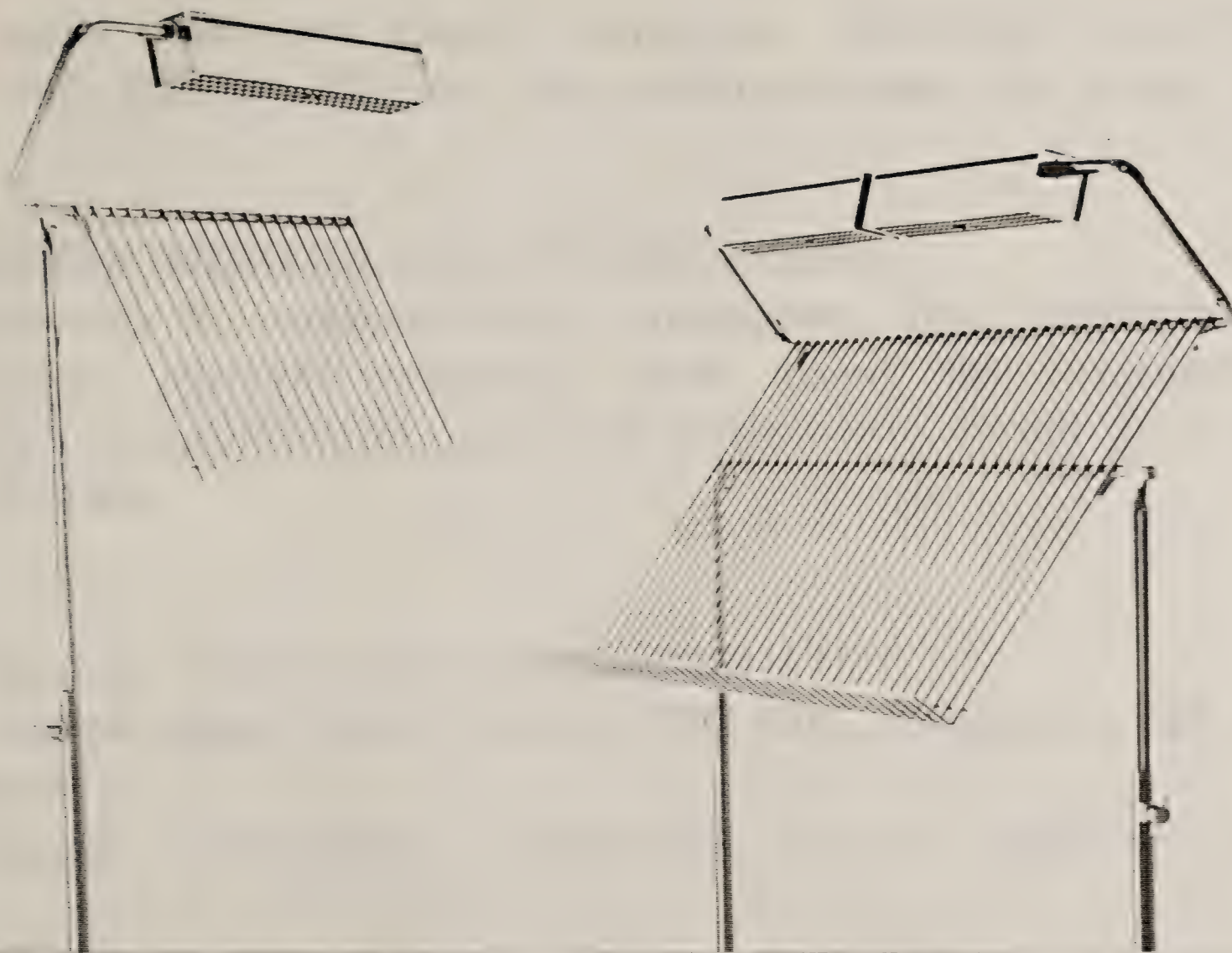
The first part of the report deals with the general situation of the country. It is a very interesting and informative study of the country's development. The author has done a great deal of research and has gathered a wealth of material. The report is well written and is a valuable contribution to the study of the country's development.

The second part of the report deals with the economic situation of the country. It is a very interesting and informative study of the country's economic development. The author has done a great deal of research and has gathered a wealth of material. The report is well written and is a valuable contribution to the study of the country's economic development.

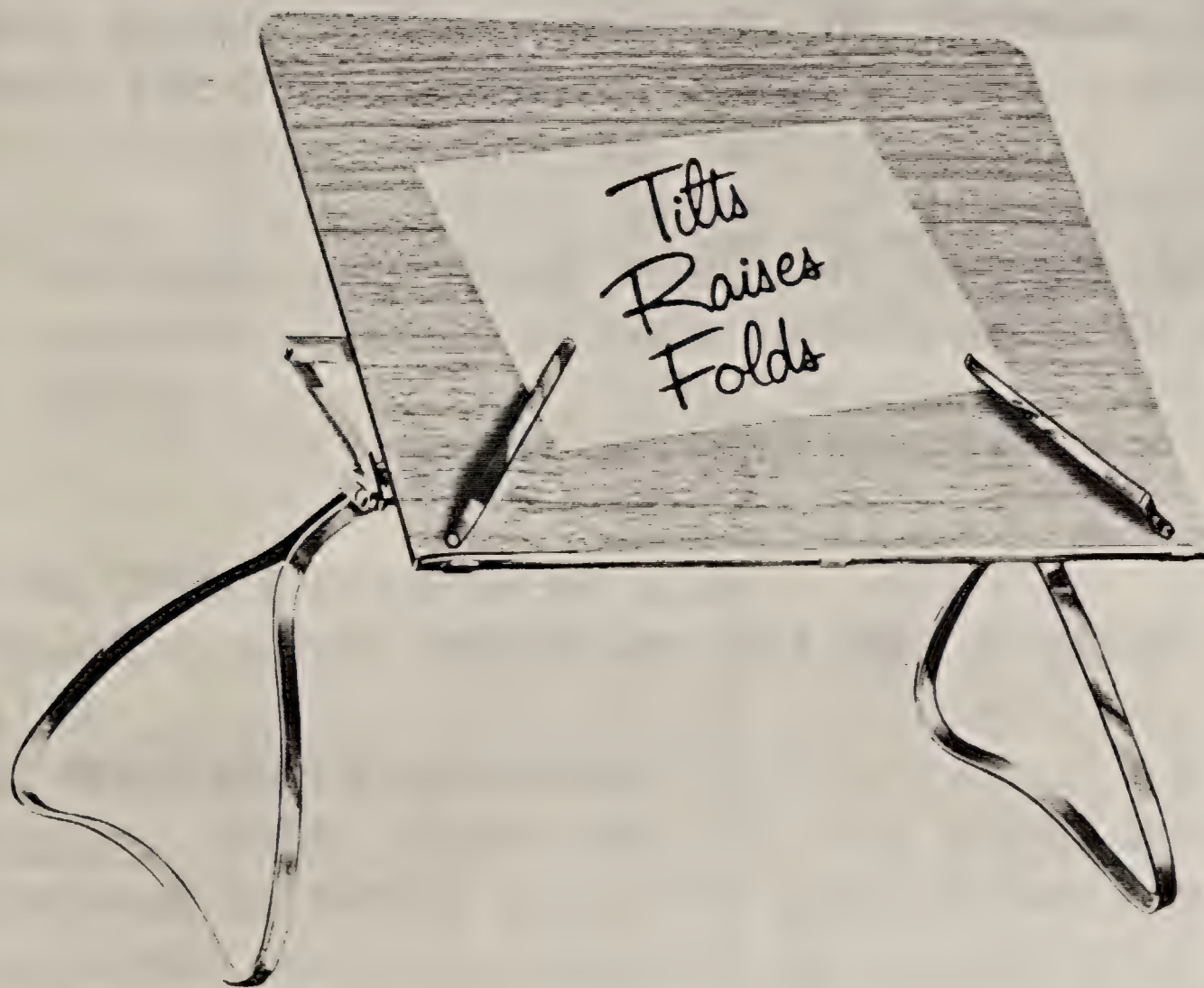
The third part of the report deals with the social situation of the country. It is a very interesting and informative study of the country's social development. The author has done a great deal of research and has gathered a wealth of material. The report is well written and is a valuable contribution to the study of the country's social development.

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The fifth part of the report deals with the cultural situation of the country. It is a very interesting and informative study of the country's cultural development. The author has done a great deal of research and has gathered a wealth of material. The report is well written and is a valuable contribution to the study of the country's cultural development.



Music Stands (R.A.T. Manufacturing)



Easy-Read Stand (Replogle Globes)

coted with matt oak plastic laminate. Optional edge bar.
Price: 450 Danish Kroner; 40 Danish Kroner for edge bar

TECHNISCHE HOGESCHOOL TE EINDHOVEN

Insulindelaan 2, Postbus 513, Eindhoven, The Netherlands.

Description: Special reading desk used in conjunction with high magnification. Can be folded into small package.

Price: \$30.00

VANPOULLES (CHURCH FURNISHERS) LTD

1 Old Lodge Lane, Purley, Surrey CR2 4DG, England. Tel: 01-668 6266.

Description: Lightweight adjustable lectern (850 - 1250 mm).

Price: £50

WALFIN DEVELOPMENTS

14 The Street, Lydiard Millicent, Nr Swindon, Wiltshire, England. Tel: 0793-770964.

Model: Francombe reading aid

Description: Book holder, made of transparent acrylic, which is height and reach adjustable and can be used in supine position. Clamps to table surface up to 50 mm thick.

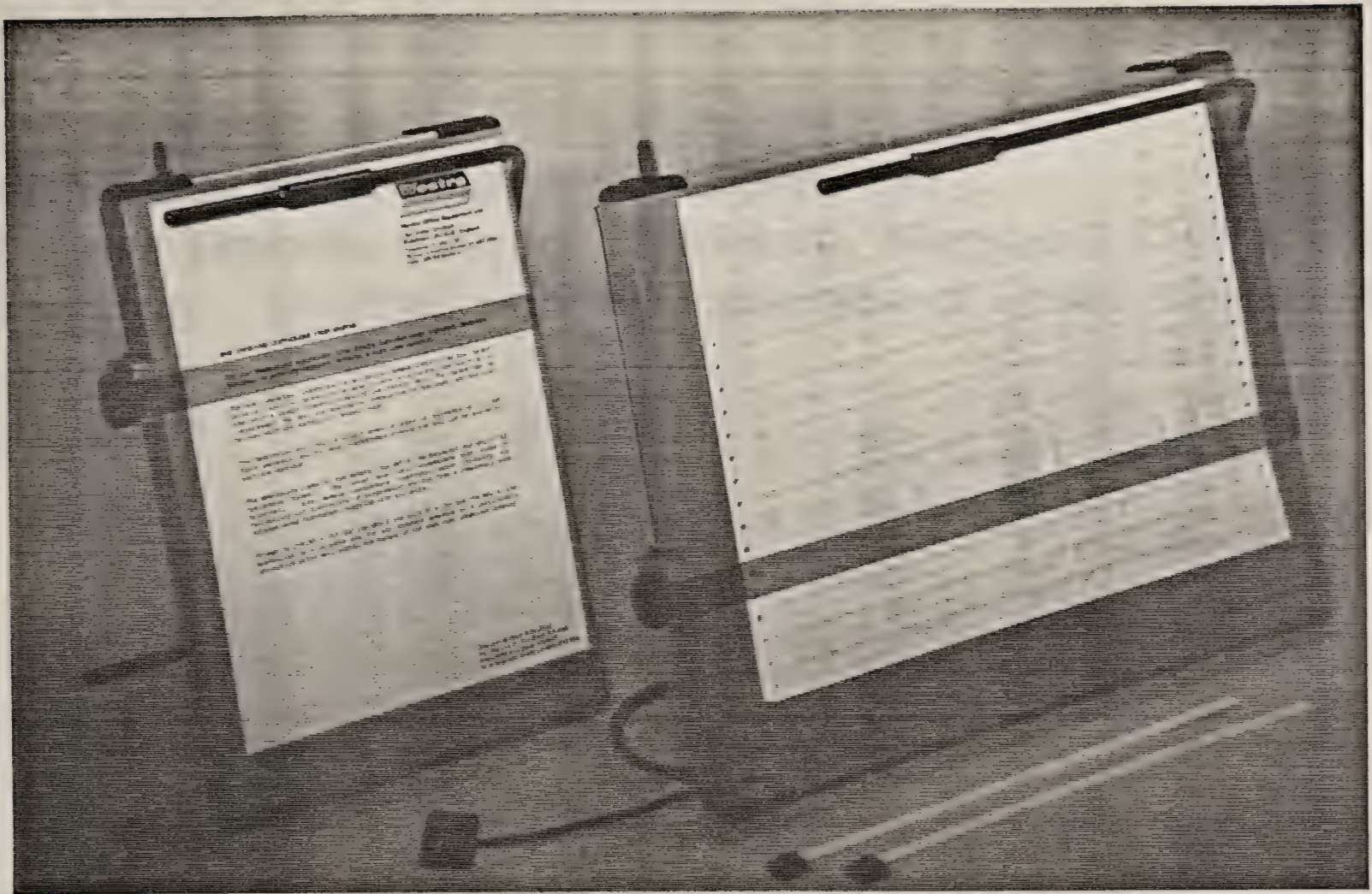
Price: £27.45

WESTRA OFFICE EQUIPMENT LTD

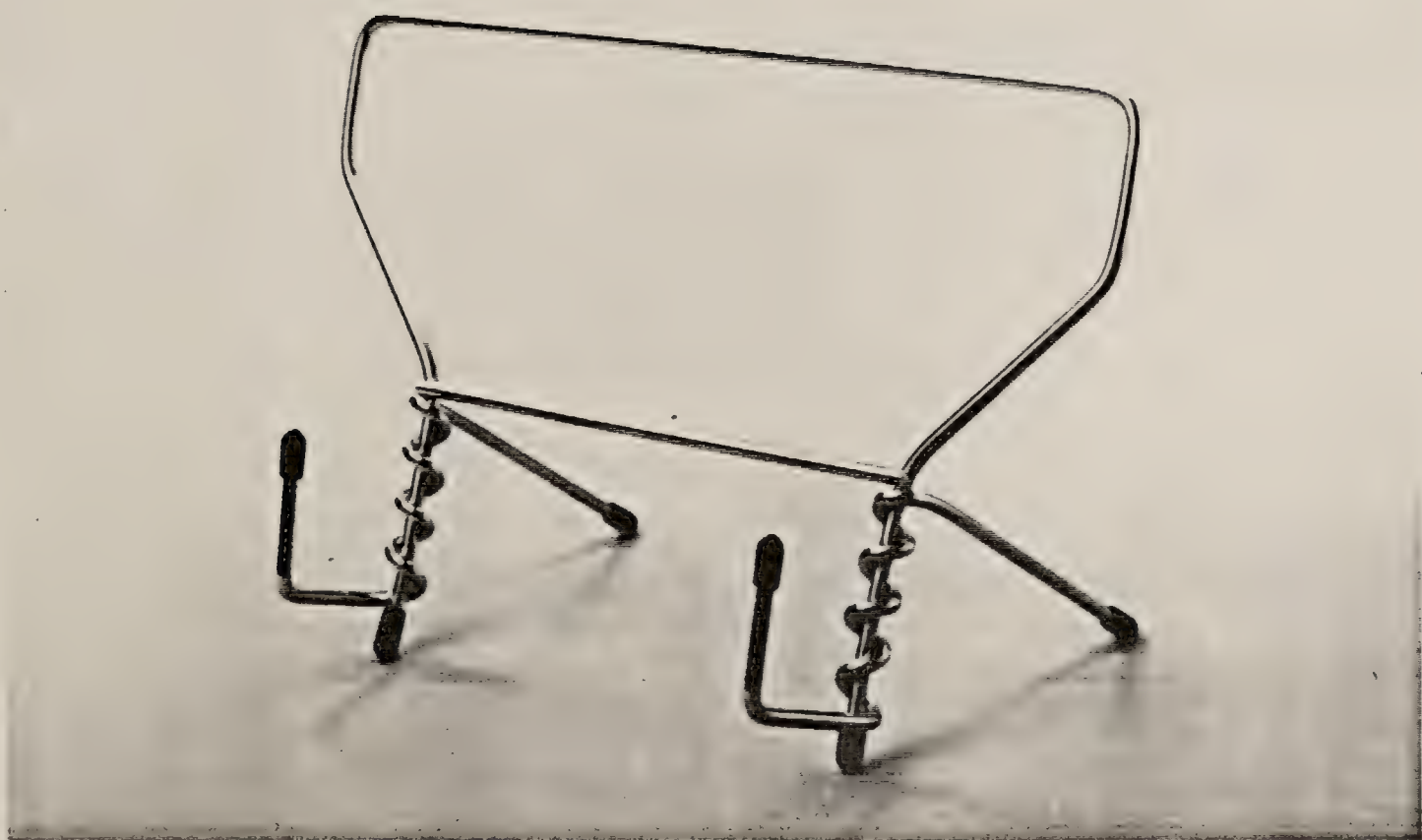
The Green, Southall, Middlesex UB2 4DE, England. Tel: 01-843 1122.

Model: Westralina Copyholder

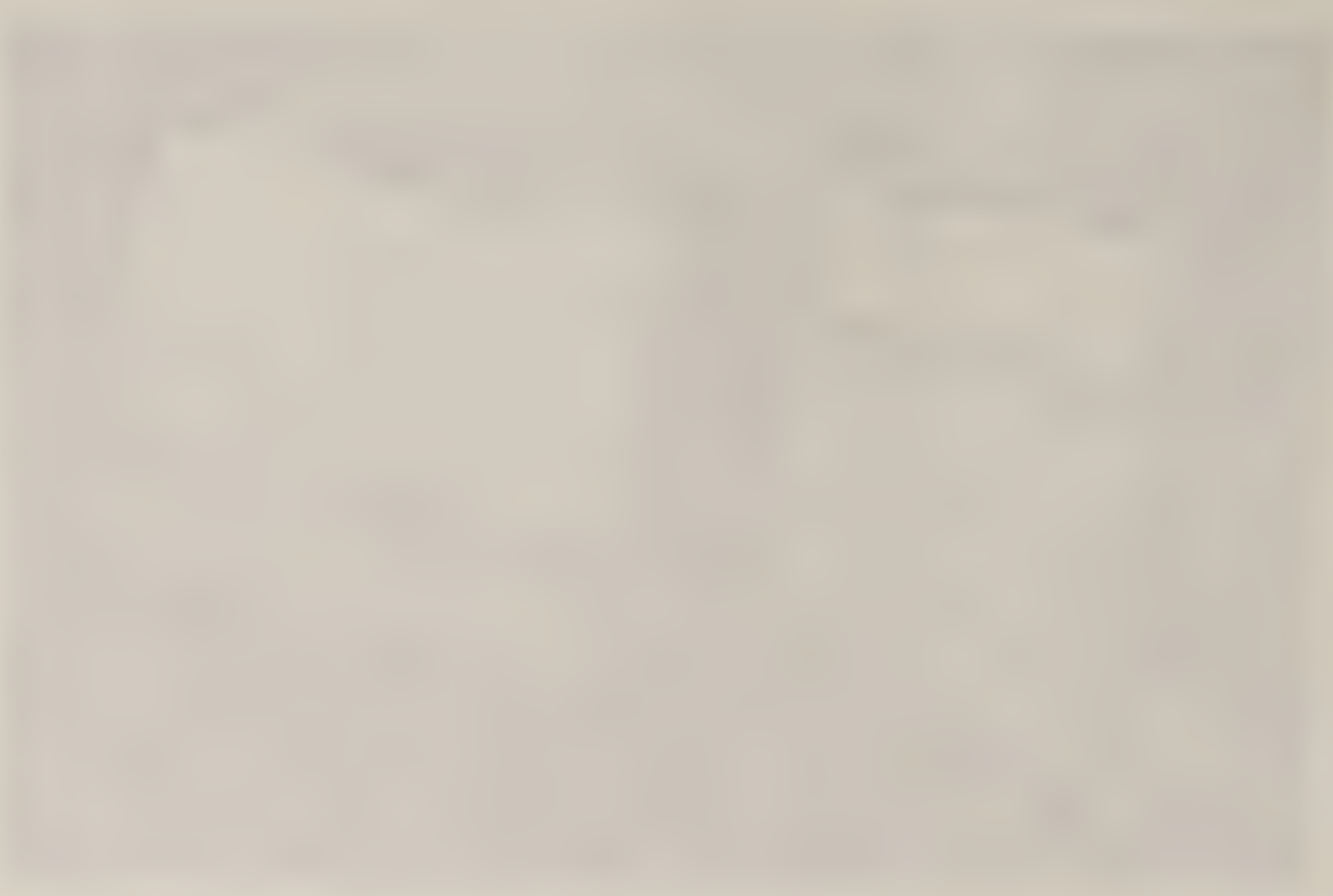
Description: Holds documents at any angle and can be programmed to follow any print size or line spacing. An optical sensor reads a programme bar transmitting signals to the motor for accurate line spacing. A switch attached to the operator's keyboard moves the reading cursor up or down

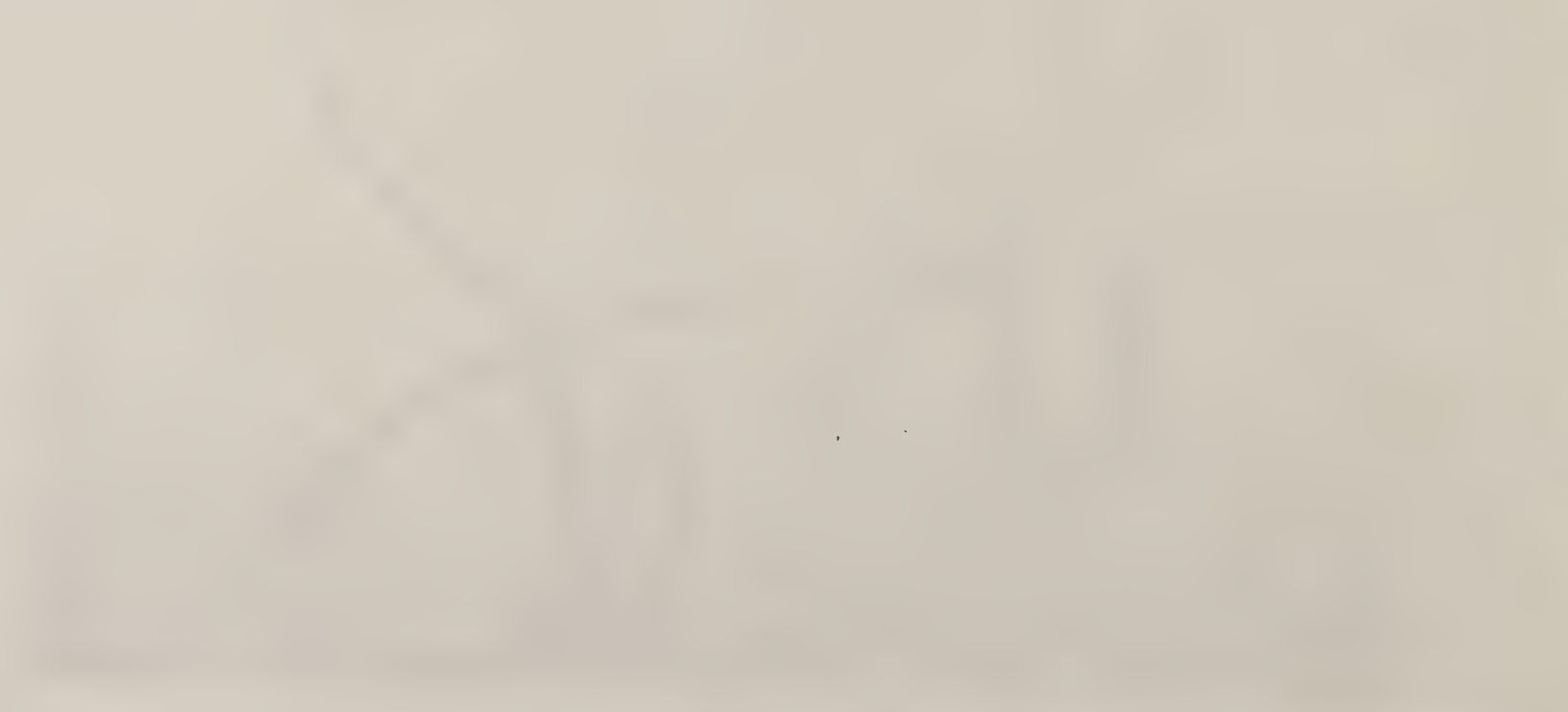


Westralina Copyholder (Westra Office Equipment)



Bookstand (Worcester Wire Manufacturing)





a line. Available for A3 or A4 paper sizes.

Price: £149.40 for A4; £164.70 for A3

WORCESTER WIRE MANUFACTURING CO

111 West Timonium Road, Timonium, Maryland 21093, USA.

Description: Sturdy non-tip bookstand that folds flat for storage.

Price: \$2.55

MEDICAL AIDS

The largest single cause of visual disability for those under the age of sixty in most developed countries is usually diabetic retinopathy. The partially sighted also often have problems with taking medicines eg precisely measuring quantities of liquids.

AMERICAN FOUNDATION FOR THE BLIND

15 West 16th Street, New York, New York 10011, USA. Tel: 212-620 2172.

Model: Becton Dickinson Magni Guide LMC-7109

Description: Precision optical system designed to accept the barrel of an insulin syringe and to accurately guide the needle into the centre of the insulin vial stopper when preparing to draw up insulin. At one end of the guide is a recess to firmly hold a 10 cc insulin vial. Magnifies entire length of the syringe scale. Fits both 1 cc and 1/2 cc insulin syringes.

Price: \$3.50

Model: Insulin needle guide MES-168

Description: Round aluminium cap designed to fit the top of Eli-Lilly insulin bottles. Inner contour is funnel shaped and guides syringe needle into rubber cap. Helps prevent bending and contamination of needle.

Price: \$3.25

Model: Pill splitter MEC-400

Description: Easily divides pills to reduce dosage. Splits pills of all types. Especially useful for those with arthritic or sight impairments.

Price: \$3

Model: Dos-Aid syringe filling device MES-563

Description: Adjustable volume regulator, for use with

disposable syringes, which holds both syringe and bottle, and once the setting has been checked by a nurse or doctor it can be locked into position by set screws. The setting should be checked regularly in case the screws loosen. Not suitable for Squibb or Eli-Lilly square shaped bottles.
Price: \$18.50

Model: Insulin Syringe MES-260

Description: Precision device consisting of a glass barrel fitted inside a 89 mm long metal casing. The casing has a coarse pitch thread onto which a large nut is threaded. When this nut is rotated 'clicks' can be heard and felt; each 'click' represents 1/20cc or 2 units on a 40 unit scale. Useful for when variable doses of insulin are required as syringe can be reset for each dose. Sterilization is by boiling, hot air or autoclaving. Adequate hearing is needed to use this aid safely. Replacement glass barrel available.

Price: \$26; \$3 for replacement glass barrel

Model: Insulin Syringe MES-664

Description: Becton-Dickinson 1 cc syringe with matching metal pipetting holder. Syringe is calibrated in twenty 5/100 cc units and is equipped with a Luer-Lok tip, which will fit standard needles. The adjustment must be set by a doctor or nurse. The syringe is set in the metal holder and the needle is inserted into the sterilized cap of the vial. The plunger is then pushed down to introduce air into the vial, and the device is reversed with the needle in place and the plunger is slowly released; automatically dispensing the correct dosage. The syringe should be filled and emptied twice to remove air bubbles and then filled slowly. The syringe can be dismantled for sterilizing without disturbing the dosage setting.

Price: \$17.50

Model: Thermo-Voice 651

Description: Announces temperature in either Farenheit

or Celsius. Comes with two probes, one for body temperature (95 to 105 degrees F, 35 to 40 degrees C) and general purposes (eg air temperature from -25 to 250 degrees F, -32 to 121 degrees C) and a second probe for high temperatures (as in an oven from 80 to 450 degrees F, 27 to 232 degrees C). Critical switches are brailled. Operates on built-in rechargeable battery.

Price: \$189

ANDROS INC

2332 Fourth Street, Berkeley, California 94710, USA.

Model: Insulin Dosage Monitor

Description: Elongated plastic strip which is snapped over the flange of the syringe. The plastic guide is cut to the correct dosage length by the physician, allowing the user to fill the syringe with the correct amount repeatedly and accurately by withdrawing the plunger until it touches the cut edge of the monitor.

ASPECT MAIL ORDER LTD

PO Box 15, Avenue C West, Thorp Arch Trading Estate, Wetherby, West Yorkshire LE23 7EG, England.

Model: Pillbox with travel alarm

Description: The pillbox has a sliding compartment for the medication, and has a separate automatic bleep reminder, which can be set to 1/2, 1, 2, 3, 4, 6, 8, or 12 hour intervals. It is small enough to slip into a pocket or purse; dimensions 82 x 38 x 19 mm. Comes with a built-in stand, medical ID plate, carrying pouch and battery.

Price: £14.95

BOERS & CO BV

Schiedamse vest 148, Rotterdam, The Netherlands.

Model: Insulin Syringe

Description: Syringe consists of a glass cylinder of a

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standard 2cc syringe encased in a metal cover, with a nut which moves along a screw-thread within the cover, producing audible 'clicks' each one represents a .05 cc increment. A brace is attached to control movement of the syringe piston and, in turn, quantity of liquid medication inside syringe.

CANADIAN NATIONAL INSTITUTE FOR THE BLIND

350 East 36th Avenue, Vancouver, British Columbia V5W 1C6, Canada. Tel: 604-321 2311.

Model: Morris Watts insulin gauge

Description: Gauge is a long narrow plastic strip, with sets of clips which hold the syringe barrel and an adjustable slide which when set regulates the movement of the plunger. Can be used with all disposable syringes. This aid is suitable for mixed dosages of insulin, as the gauge has two set-stops.

Price: \$5

CHESTER-CARE

16 England's Lane, London NW3 4TG, England. Tel: 01-586 2166.

Model: Thermometer magnifier

Description: The clinical thermometer has a built-in magnifier and a blue mercury column. Also the case provides additional magnification. Calibrated in both Fahrenheit and Centigrade.

Price: £3.45

CYBERON CORPORATION

1175 Wendy Road, Ann Arbor, Michigan 48103, USA. Tel: 313-994 0326.

Model: Cyberon adjustable gauging device

Description: This device holds both the insulin bottle and the syringe, and the movement of the plunger is set against a metal 'flipper' which clicks each time a

and a very small number of the people who are
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are not paid for their services. The Government
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people and it is not the duty of the Government
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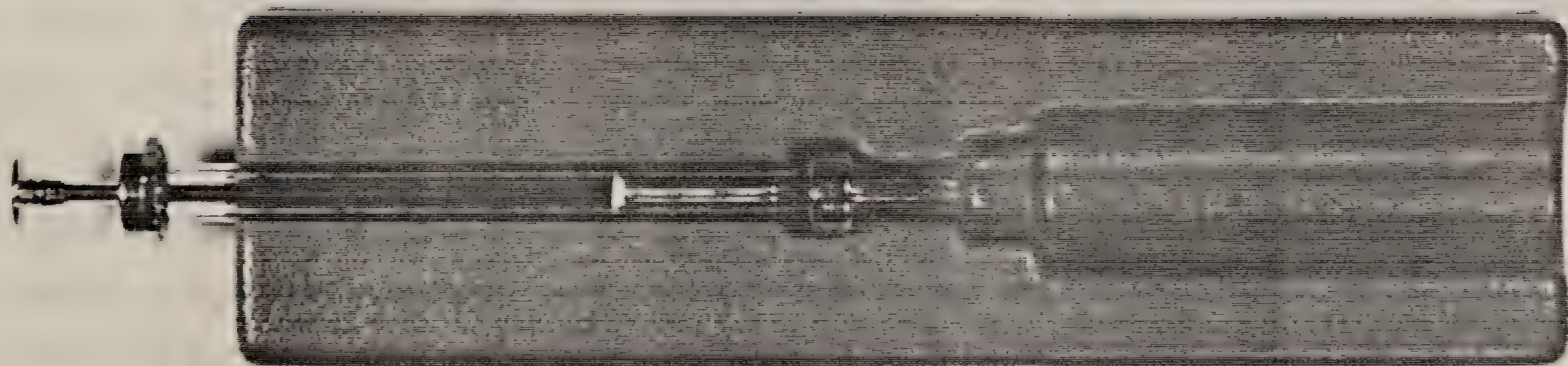
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Injection Safety Guard (Falgro International)



Location Tray (Hypoguard)

revolution is completed and is equivalent to one unit on the syringe. The gauge can be used for mixed dosages of insulin and the design of the aid allows the syringe to remain in the unit while the injection is administered.

FALGRO INTERNATIONAL CORPORATION

300 71st Street, S-435, Miami Beach, Florida 33141, USA.

Tel: 305-861 8227.

Model: Injection Safety Guard

Description: Guard to fit over insulin vial to protect the hand from the needle.

Price: \$0.99

HENKE-SASS WOLF GMBH

7200 Tuttlingen, Kronenstrasse 16, German Federal Republic.

Model: Insulin syringe

Description: Syringe consists of a glass barrel with metal mountings. The barrel is fixed in a plastic casing with a coarse pitch screw-thread onto which is rotated an octagonal dosage nut, with indicator for 40 dosages of a 2cc capacity syringe. Adjustable for various dosages.

HYPOGUARD LTD

Dock Lane, Melton, Woodbridge, Suffolk IP12 1PE, England.

Tel: 03943-7333.

Model: Click Count Syringe

Description: Glass syringe measures 127mm, and the metal plunger shaft is notched at 2 unit intervals and is gripped by two parallel pins. Each notch 'clicks' against the pin as the plunger is withdrawn, each click representing 2 units of insulin. To inject, the plunger is turned to the guide position and the plunger is pushed in. Can be used for mixed dosages.

Price: £10.80

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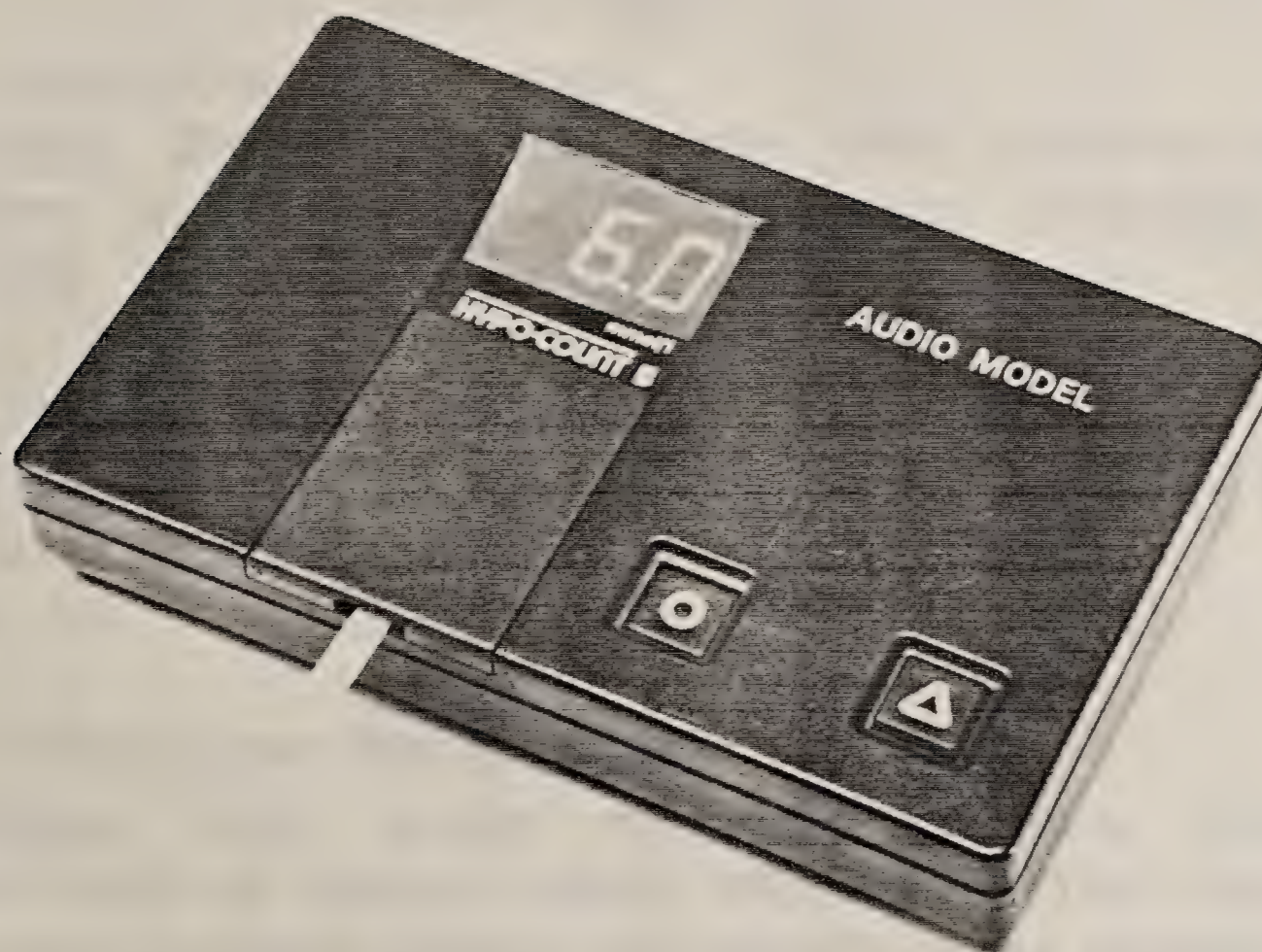
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Hypo-Count II (Hypoguard)



Hypo-Count IIB Audio (Hypoguard)

Model: Location Tray

Description: Heavy durable plastic mould is impressed with the shape of an insulin bottle, aligned with a trough for a glass insulin syringe. With both aligned in the tray, the needle is directed to the centre of the vial cap. When in the vertical position for the insulin to be withdrawn, the bottle and syringe have to be held in place as there are no clips to do this. Can be used with any sort of insulin vial, but only long thin syringes, such as the Click-Count syringe can be used.

Price: £4

Model: Hypo-Count II – blood glucose monitor

Description: The device measures blood glucose levels in conjunction with reagent strips. The result is shown on a digital display unit, in large easy-to-read figures. The power supply is provided by heavy-duty built in batteries, with about 50 tests between recharges. Models are available to measure both Ames Dextrostix and Boehringer strips. Size 170 x 100 x 30 mm.

Price: £80

Model: Hypo-Count II B Audio

Description: Blood glucose meter with audible output in the form of buzzing in 6 different reporting blocks.

Price: £80

Model: Hypo-Count II B Talking

Description: Blood glucose meter with a built-in speech synthesizer in addition to the visual display.

Price: £110

Model: Centrepont Needle Guide

Description: High grade medical stainless steel cone moulded into a flexible nylon clip to fit the neck of an insulin bottle, which allows the needle to be guided through the centre of the rubber membrane of the bottle. Centrepont allows for insulin to be loaded into the syringe by the

conventional manner. Sterilization by boiling is recommended before use. Type 1 fits Burroughs Wellcome, Boots, Nova and Allen & Hanbury insulin bottles. Type 2 fits the full range of Eli-Lilly American insulin bottles.

Price: £7.50

Model: Penject

Description: Pen-style injector used in conjunction with a Becton Dickinson U100 1 ml syringe. Dispensation is in the range 2 units upwards in increments of 2 units. The quantity to be injected is selected by rotating the end cap.

Price: £20

INDEPENDENT LIVING AIDS INC

11 Commercial Court, Plainsview, New York 11803, USA. Tel: 516-681 8288.

Model: Pop-Up pill cup

Description: Pop-up collapsible pill cup folds out into a cup and back into a handy pill case for pocket, purse or brief case. The pill compartment is on the outside to keep the medication dry. Aid is made of durable opaque plastic, and is dishwasher safe.

Price: \$1.25

Model: Pillbox-Reminder

Description: This pillbox has a compartmented section to hold the medication, and has an inbuilt automatic 'reminder alarm' which can be set at 1/2, 1, 2, 4, 8 and 12 hour intervals. The pillbox has a digital LCD clock/calendar and an early morning alarm feature. Small enough to carry in a purse or pocket, 82 x 38 mm.

Price: \$22.50

Model: Mediplanner weekly pill dispenser

Description: This dispenser has 28 individual compartments, large enough to take four separate daily dosages for each day of the week. The lid of each compartment is marked by the time

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NOTE: [illegible]
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of day (morning, noonday, evening and bedtime) and numerically, in order of proper use (1, 2, 3 and 4) both in Arabic and braille numerals. Dishwasher safe.

Price: \$4.15

Model: Medicine spoon

Description: This spoon has a hollow handle, which is calibrated for accurate measurement of medicine and will hold upto two full teaspoons (10cc) of liquid, avoiding spillage and waste.

Price: \$0.95

Model: Magni-Guide

Description: The guide accepts the barrel of a 10cc Becton-Dickinson syringe and accurately guides the needle into the vial stopper when preparing to draw up insulin. The guide also magnifies the whole length of the syringe scale and is easily held fitting both 1cc and 1/2cc insulin syringes.

Price: \$3.50

LIFESCAN

1025 Terra Bella Avenue, Mountain View, California 94043, USA.

Model: Glucospan Plus

Description: Glucose meter buzzes at 20 seconds to remind diabetics to wipe the blood off the strip, and at 2-3 seconds for readout. Requires no calibration, and displays glucose level reading on a large print display.

Price: \$169

MEDAED PRODUCTIONS

Holdenhurst Road, Bournemouth BH8 8EB, England. Tel: 0202-528732.

Model: Doseaid tablet reminder and container

Description: The container is slightly larger than a

typewriter spool, and has twelve separate compartments which will take one large pill or two or three small ones. The cover is a rotating disc which gives a distinct click as it is turned to each compartment; four small protrusions on the rotating ring which indicate when the last day's dosage has been reached, as well as a colour change.

Price: £2.75

MEDITEC INC

9485 East Orchard Drive, Englewood, Colorado 80111, USA.

Tel: 303-771 4863.

Model: Insulgage loading guides

Description: A simple, precise loading gauge which enables visually impaired users to load disposable syringes accurately and safely. The aids are assembled in sets to meet the needs of the patient's individual requirements. Specific insulgages are made for use with different types of syringes, so advise which make is used. Special versions have dosage identified by large, black, raised numbers or by braille numbers at a slight extra cost. Gauges are sold singly and in sets of 2, 3, 5, 8 or 12.

Price: \$7.75 inkprint; \$8.25 braille; \$8.75 raised numbers; \$9.50 both raised numbers and braille

Model: Holdease syringe filling device

Description: Holds syringe and an insulin vial together in a steady and easy-to-handle unit. Guides the needle straight and sure into the rubber stopper, eliminating handling difficulties. Works with all 1cc and 1/2cc U-100 disposable syringes and can be used with the Meditec Insulgage guides. Not suitable for use with glass and short type disposable syringes. Device does not need to be sterilized.

Price: \$9.75

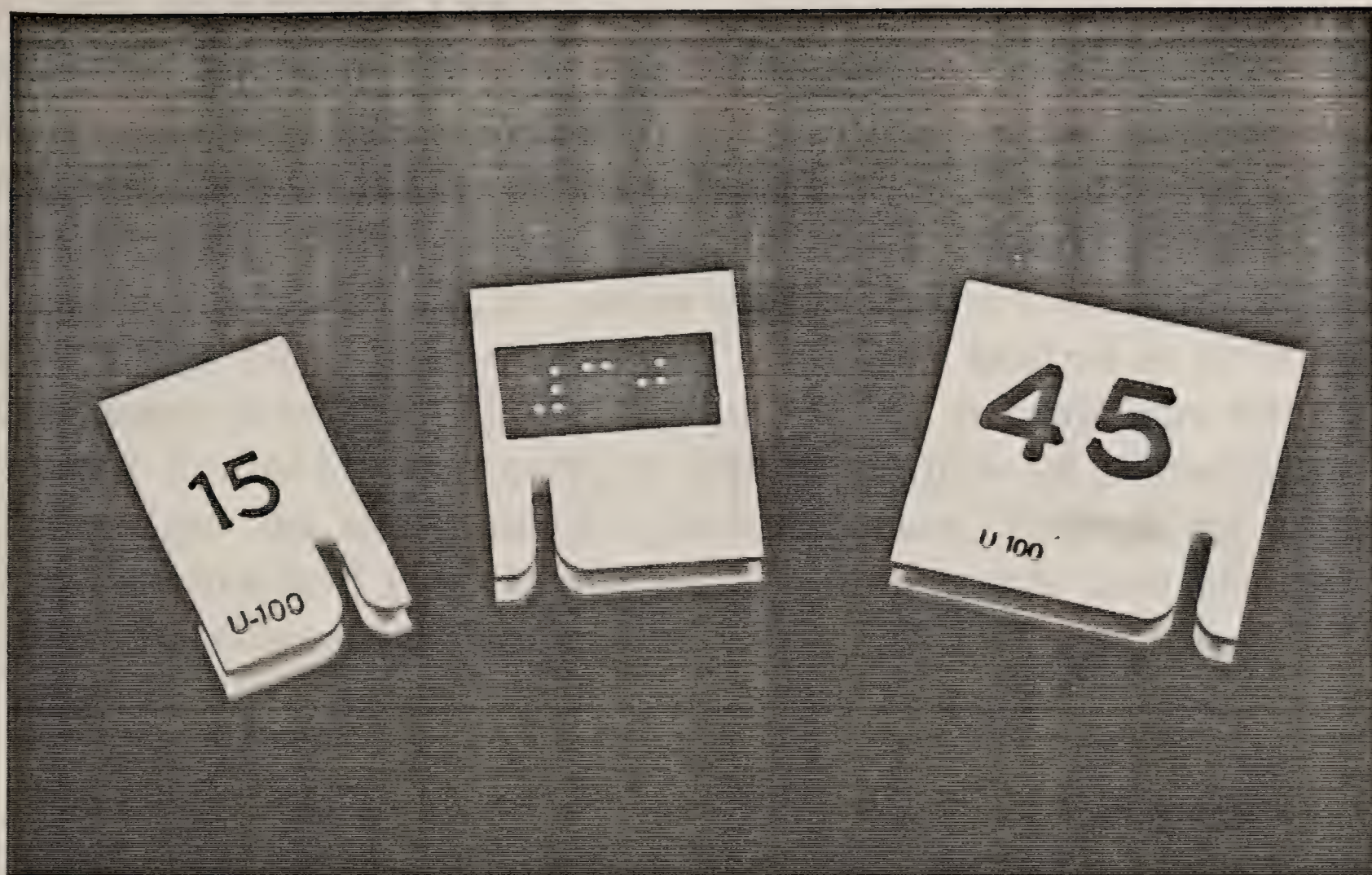
The first part of the report deals with the general situation of the country and the progress of the work during the year. It is followed by a detailed account of the various projects and the results achieved. The report concludes with a summary of the work done and the prospects for the future.

The second part of the report deals with the financial situation of the organization. It gives a detailed account of the income and expenditure for the year and shows how the funds have been used. It also gives a statement of the assets and liabilities of the organization at the end of the year.

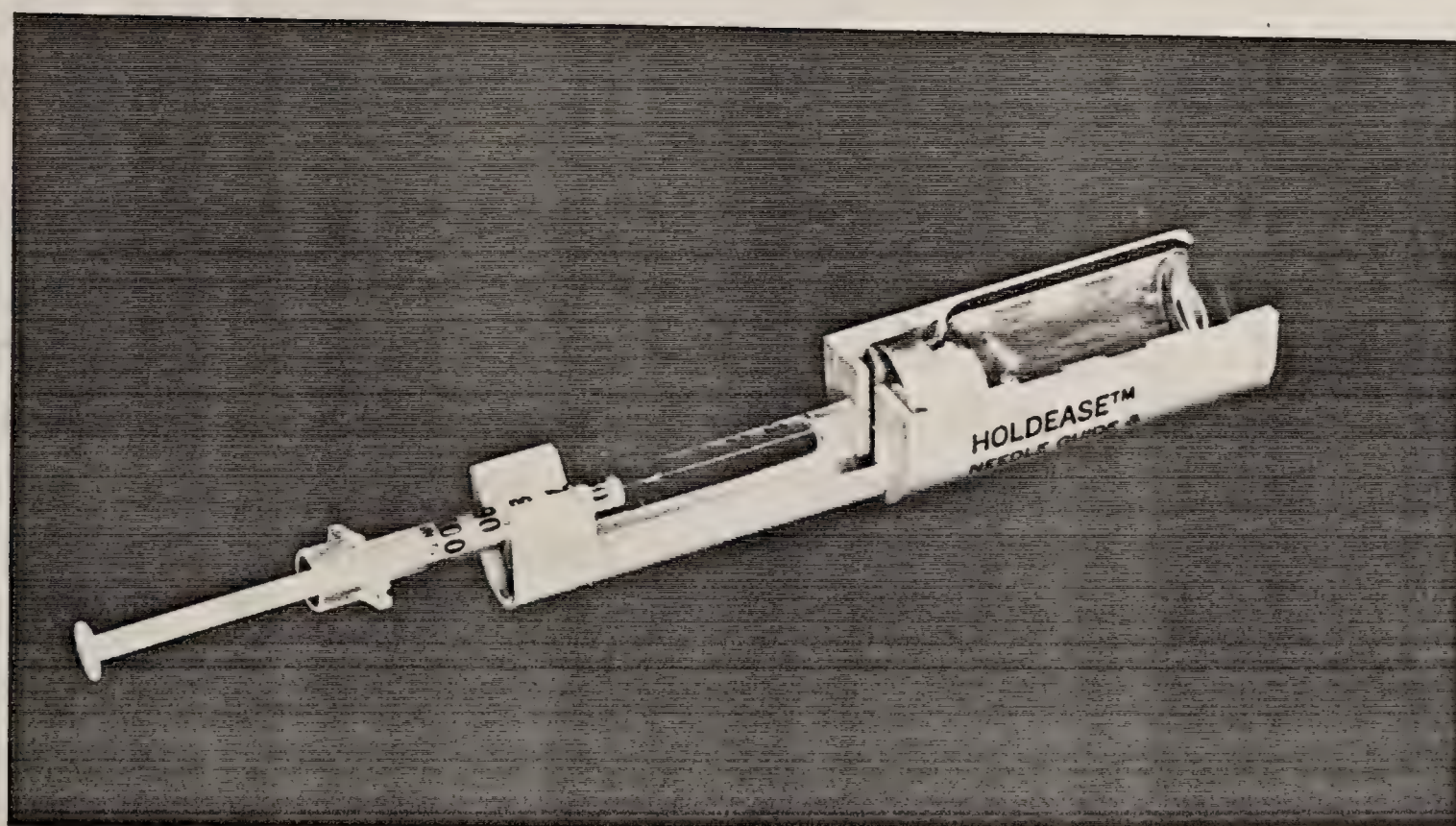
The third part of the report deals with the personnel of the organization. It gives a list of the staff and their duties and shows how the work has been distributed. It also gives a statement of the salaries and other expenses of the staff.

The fourth part of the report deals with the general progress of the work during the year. It gives a summary of the various projects and the results achieved. It also gives a statement of the progress of the work in each of the various departments.

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Insulgage loading guides (Meditec)



Holdease syringe filling device (Meditec)

OWEN MUMFORD LTD

Medical Division, Brook Hill, Woodstock, Oxford OX7 1TU, England. Tel: 0993-812862.

Model: Autolet blood letting device

Description: Allows the user to take blood samples, for monitoring blood sugar, easily and with the minimum of pain. The aid is hand held and when a release button is pressed a sterilised lancet is operated, guided by a platform which is placed against the puncture site, a choice of penetration is dependent on the type of platform used, orange or yellow. The lancets and the platforms are disposable and should be changed after each operation.

Price: £6

ROYAL NATIONAL INSTITUTE FOR THE BLIND

224 Great Portland Street, London W1N 6AA, England. Tel: 01-388 1266.

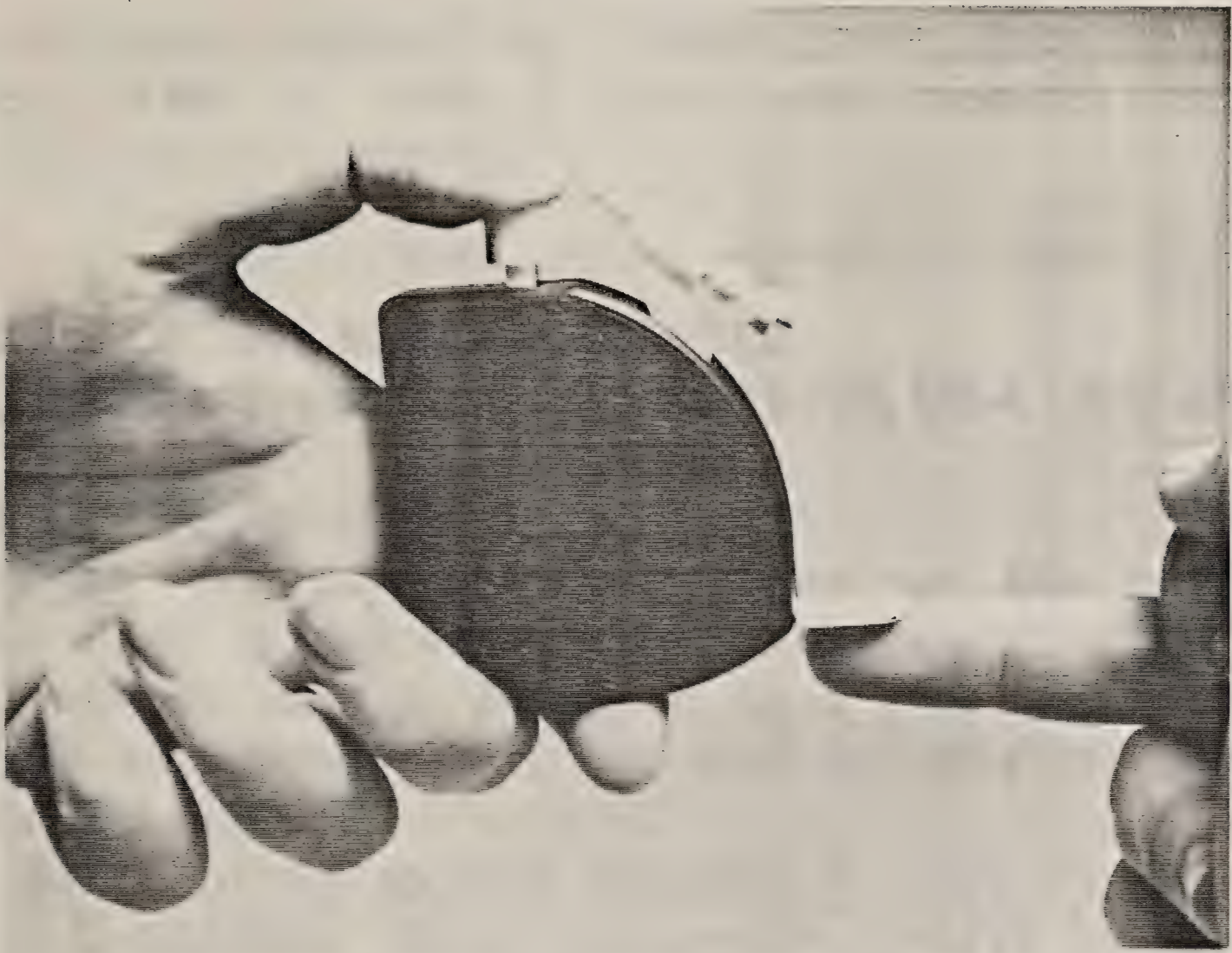
Model: Medicine dispenser

Description: This dispenser screws onto a standard size medicine bottle (of 200-500 ml capacity). It is made of polypropylene and dispenses a 5 ml dose of medicine, quickly and without difficulty or spillage. Supplied with instructions in print and braille.

Price: £2.22 (con. free)

Model: Electronic talking thermometer

Description: Measuring range of -30 degrees C (-22 degrees F) to +120 degrees C (48 degrees F), with an accuracy of 0.1 degrees at 35 degrees C and not worse than 1 degree over the whole range. Measurements are made by using the hand-held probe, which contains a sensor mounted at its tip. The unit is powered by rechargeable batteries, and a mains adaptor (240 volts, 50 Hz) is supplied for recharging the batteries. The temperature is spoken in centigrade or Fahrenheit, as required, to the nearest whole degree, or to the nearest tenth of a degree in the range 35 to 42 degrees C (95 to 107 degrees F). Thermometer 128 x



Autolet Blood Letting Device (Owen Mumford)



Medicine Dispenser (RNIB)

152 x 38 mm; weight 2 kg. When boxed (including mains adaptor) 165 x 140 x 114 mm; weight 3.9 kg.
Price: £90.50 (con. £30.16)

SCIENCE FOR THE BLIND PRODUCTS

Box A, Southeastern, Pennsylvania 19399, USA. Tel: 215-296 2111.

Model: Aud-A-Mometer

Description: A stainless steel probe on the end of a flexible cable is placed where the temperature is to be measured. A tone is balanced to a null (no sound) by turning a knob on a small box and taking a reading on a raised dot scale.

Price: \$100 for 95 to 110 degrees F; \$100 for 35 to 43 degrees C; \$125 for -10 to 110 degrees C; \$125 for 65 to 110 degrees F; \$135 for -30 to 110 degrees F

SHERWOOD MEDICAL

Monoject Division, St. Louis, Missouri, USA.

Model: Monoject syringe magnifier

Description: The device is a small 19 mm circular magnifier, centered in a rectangular plastic housing that clips onto the syringe in the area of the dosage to be measured. Will fit any disposable plastic syringe.

Price: £1

Model: Monojector

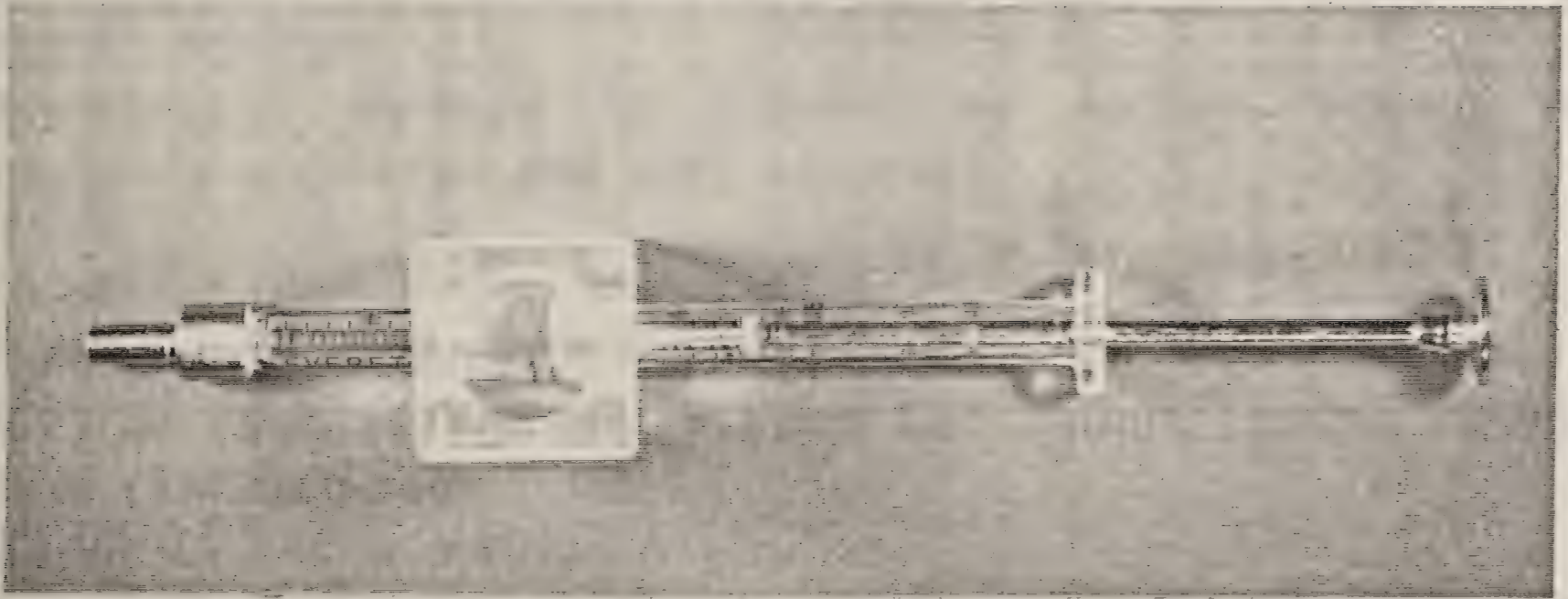
Description: Compact spring-loaded fingertip puncture device for use with the Monojet Monolet lancet.

Price: £5

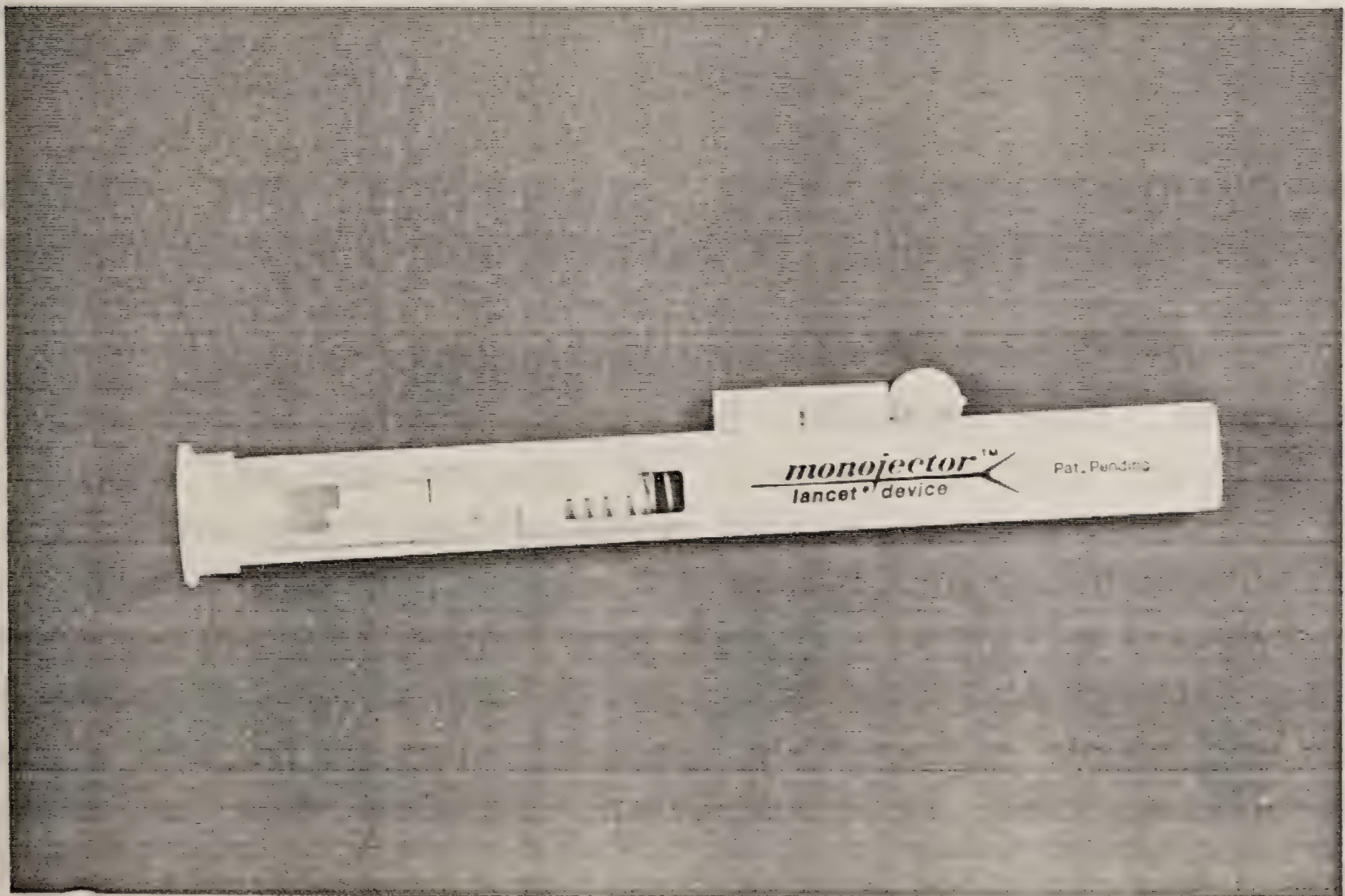
SRF PRODUKTER AB

Sandsborgsvagen 50, S-122 33 Enskede, Sweden. Tel: 08-39 00 20.

Model: Clinical thermometer



Monoject Syringe Magnifier (Sherwood Medical)



Monoject (Sherwood Medical)

Description: Electronic thermometer with a visual display. Range 32 to 42 degrees C.

Price: 284 Swedish Kronor

TECHNISHE HOGESCHOOL TE EINDHOVEN

Insulindelaan 2, Postbus 513, Eindhoven, The Netherlands.

Model: Syringe

Description: Syringe is loaded by tactual sense, is medically approved and very accurate.

TRI-COUNTY REHABILITATION CENTER

4461 SE Federal Highway, PO Box 597, Stuart, Florida 33495, USA. Tel: 305-287 7600.

Model: C-Better syringe magnifier

Description: Clips on to the syringe, and magnifies 2x without distortion. The device is made of clear plastic. Fits all Becton-Dickinson and Monojet 100 disposable syringes. Also fits Low Dose syringes without modification.

Price: \$5

**VEREIN ZUR FORDERUNG DER BLINDENBILDUNG EV
Bleekstrasse 26, D-3000 Hanover 71, German Federal Republic.
Tel: 0511-523021.**

Model: Tonotest sphygmomanometer

Description: Battery powered device with electronic circuitry. The dial records the readings so that they can be read at the user's convenience. Plastic housing measures 170 x 270 x 70 mm and weighs 1.2 kg without the batteries, but includes the velcro cuff and pumping bulb. The round scale is protected by a plexiglass plate and has tactual marks every 10 torr: diameter is about 80 mm. The aid comes with batteries and detailed instructions in both braille and print.

Price: 469 Deutsche Mark

RELATED PUBLICATIONS

There are three other books in this series:

International Directory of Agencies for the Visually Disabled which contains information about the main organisations of and for the visually disabled in 135 countries. Ordinary print edition £5.

International Register of Research on Visual Disability which contains details of current non-medical research for the blind and partially sighted. Ordinary print edition £5.

International Survey of Aids for the Visually Disabled which includes descriptions, photographs, and prices of over 800 aids from over 200 suppliers. Ordinary print edition £10.

These prices do not include postage; for destinations outside Europe, the books will be sent by airmail unless otherwise requested.

These books are available from Dr John Gill, Research Unit for the Blind, Brunel University, Uxbridge, Middlesex UB8 3PH, England.

They are also available from:

National Braille Press, 88 St Stephen Street, Boston, Massachusetts 02115, USA.

Synskadades Riskforbund, Consultative Unit, S-122 88 Enskede, Sweden.

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Gill, J.M. c.1
INTERNATIONAL SURVEY
OF AIDS FOR THE PARTIALLY
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AMERICAN FOUNDATION FOR THE BLIND
15 WEST 16th STREET
NEW YORK, N.Y. 10011



**Research Unit
for the Blind**